U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-286 947

Chesapeake Bay Baseline Data Acquisition, Toxics in the Chesapeake Bay

Chesapeake Research Consortium, Inc, Annapolis, MD

Prepared for

Environmental Protection Agency, Philadelphia, PA Chesapeake Bay Program

Jul 78

CRC

PB 286947

CHESAPEAKE BAY BASELINE DATA ACQUISITION

TOXICS IN THE CHESAPEAKE BAY

Preliminary Report

Contract No. 68-01-3994

between

U.S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

July 1978

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

Chesapeake Research Consortium, Incorporated

1419 Forest Drive, Suite 207
Annapolis, Maryland 21403
(301) 263-0884

The Johns Hopkins University
University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

277

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 903/9-78-017

2.

3. RECIPIENT'S ACCESSION NO. PB286947

4. TITLE AND SUBTITLE
"Chesapeake Bay Baseline Data Acquisition"
(Toxics in the Chesapeake Bay)

5. REPORT DATE July, 1978

6. PERFORMING ORGANIZATION CODE

7. AUTHOR(S)

8. PERFORMING ORGANIZATION REPORT NO.

9. PERFORMING ORGANIZATION NAME AND ADDRESS
Chesapeake Research Consortium
1419 Forest Drive, Suite 207
Annapolis, MD 21403

10. PROGRAM ELEMENT NO.

11. CONTRACT/GRANT NO. 68-01-3994

12. SPONSORING AGENCY NAME AND ADDRESS
Chesapeake Bay Program, EPA, Region III
6th & Walnut Streets
Philadelphia, PA 19106

13. TYPE OF REPORT AND PERIOD COVERED Final, 1946 - Present

14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

This report identifies researchers, research activities, and data files applicable to the Chesapeake Bay estuarine system.

The identified data was generated after 1973 on the following: Submerged Aquatic Vegetation, Shellfish Bed Closures, Eutrophication, Toxics Accumulation in the Food Chain, Dredging and Spoil Disposal, Hydrologic Modifications, Modification of Fisheries, Shoreline Erosion, Wetlands Alterations, and the Effects of Boating and Shipping on Water Quality.

Major past and current program monitoring in the Bay and its tributaries are summarized according to frequency.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Research Activities Monitoring	Chesapeake Bay metals biocides Water Quality parameters Halogenated hydrocarbons Organics	

18. DISTRIBUTION STATEMENT	19. SECURITY CLASS *(This Report)*	21. NO. OF PAGES
RELEASE TO PUBLIC	UNCLASSIFIED	277
	20. SECURITY CLASS *(This page)*	22. PRICE
	UNCLASSIFIED	PCA13

EPA Form 2220-1 (9-73)

CHESAPEAKE BAY BASELINE DATA ACQUISITION

TOXICS IN THE CHESAPEAKE BAY

Preliminary Report

Contract No. 68-01-3994

between

U.S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

July 1978

2-

Chesapeake Research Consortium, Incorporated

1419 Forest Drive, Suite 207
Annapolis, Maryland 21403
(301) 263-0884

The Johns Hopkins University
University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

CONTENTS

Introduction 4

Annex I. Consolidated Toxic Substances List 26p

Annex II. Directory of Researchers 6p

Annex III. Data Files 214p

Part A. Data File Index - Listed By Key Word 25p

Part B. Data Files 190p

Introduction 26

EDBD Files 29

New Files 165

Annex IV. Monitoring Programs. 24p

INTRODUCTION

This preliminary report on toxic substances is estimated to be 60 to 70% complete. Appendices I and II, "A Chesapeake Bay Directory" and "Submerged Aquatic Vegetation," respectively, have already been submitted in final form.

The main thrust of this report was to deal with accumulations of toxics in biota, water and sediment. Metals, biocides and PCB's were the toxics encountered most frequently in this study. Oil spill data files were included only when bioaccumulation was measured.

This report comprises four sections as follows:

Annex I. is a consolidation of toxic substances from five major summaries.

Annex II. contains researchers presently engaged in toxic studies in the Chesapeake Bay.

Annex III. is an indexed listing of toxic data files pertinent to the Chesapeake Bay and adjacent coastal states.

Annex IV. summarizes the monitoring efforts as derived from Annex III.

During this study, interviews have been conducted with 150 scientists from 30 organizations. From these interviews 50 new data files listed in Annex III were described. These file descriptions have been forwarded to the Environmental Data Service (EDS) for incorporation into the Environmental Data Base Directory (EDBD). In addition, EDBD has provided a complete listing of all Chesapeake Bay

data files. These files were carefully screened by the study team and all those pertinent to toxics were included in Annex III.

ANNEX I

Consolidated Toxic Substances List

Toxics in the Chesapeake Bay

The "Consolidated Toxic Substances List" includes substances from the following sources:

Priority Pollutant List (65 classes, 129 compounds based on consent decree of EPA and the National Resources Defense Council).

Section 311 List (PL92-500).

Maryland's Hazardous Substances List (Maryland law 08.05.05).

EDBD Parameter Thesaurus (EDS, National Oceanic and Atmospheric Administration).

STORET Parameter Listing (STOrage and RETrieval, EPA).

Virginia's hazardous substances list is presently under development. The expected promulgation date is early 1979.

The toxic substances are listed in alphabetical order. To the right of each substance is a checklist indicating from which list(s) the substance was taken. The last column of the matrix indicates whether this substance is described in the Annex III EDBD data files for the Chesapeake Bay. New files are not referenced in this column.

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
1,1-Dichloroethane		x		x		
1,1-Dichloroethylene		x		x		
1,1,1-Trichloroethane		x		x		
1,1,2-Trichloroethane		x		x		
1,1,2,2-Tetrachloroethane		x		x		
1,2-Dichlorobenzene		x		x		
1,2-Dichloroethane		x		x		
1,2-Dichloropropane		x		x		
1,2-Diphenylhydrazine		x		x		
1,2-trans-Dichloroethylene		x		x		
1,2,3,4,5,7,7-Heptachloro Norbornene				x		
1,2,3,4,7,7-Hexachloro Norbornadiene				x		
1,2,4-Trichlorobenzene		x		x		
1,2,5,6-Dibenzanthracene		x		x		
1,3-Dichlorobenzene		x		x		
1,3-Dichloropropene		x		x		
1,4-Dichlorobenzene		x		x		
2-Chloroethyl Vinyl Ether		x		x		
2-Chloronaphthalene		x		x		
2-Chlorophenol		x		x		
2-Nitrobiphenyl			x			
2-Nitrophenol		x		x		
2,3-Dinitrophenol			x			
2,3,6-Trichlorophenol			x			
2,3,7,8-Tetrachlorodibenzo Dioxin (TCD)		x		x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
2,4-D Acid	x		x	x	x	x
2,4-D Buteny Ester			x			
2,4-D Butyl Ester			x			
2,4-D Esters	x		x			
2,4-Dichlorophenol		x		x		
2,4-Dimethylphenol		x		x		
2,4-Dinitrophenol		x	x	x		
2,4-Dinitrotoluene		x		x		
2,4-D Isooctyl Ester			x			
24,-D Isopropyl Ester			x			
2,4,5-T Acid	x			x	x	x
2,4,5-T Esters	x			x		
2,4,5-Trichlorophenol			x			
2,4,5-Tri Iso Octyl Ester				x		
2,4,6-Trichlorophenol		x	x	x		
2,5-Dinitrophenol			x			
2,6-Dinitrophenol			x			
2,6-Dinitrotoluene		x		x		
3,3-Dichlorobenzidine		x		x		
3,4-Dinitrophenol			x			
3,4,5-Trichlorophenol			x			
3,5-Dinitrophenol			x			
4-Bromophenyl Phenyl Ether		x		x		
4-Chlorophenyl Phenyl Ether		x		x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
4-Nitrobiphenyl			x			
4-Nitrophenol		x		x		
4,6-Dinitro-Ortho-Cresol		x		x		
17-Alpha-Estradiol			x			
Abate				x		
Acenaphthene		x		x		
Acenaphthylene		x		x		
Acetaldehyde	x		x			
Acetic Acid	x		x	x		
Acetic Acid Fluno-Potassium Salt			x			
Acetic Acid,Fluoro-,Triethyl Lead Salt			x			
Acetic Anhydride	x		x			
Acetone Cyanohydrin	x		x			
Acetylaminofluorene			x			
Acetyl Bromide	x		x			
Acetyl Chloride	x		x			
Acrolein	x	x	x	x		
Acrylonitrile	x	x	x	x		
Adiponitrile	x		x			
Aldicarb				x		
Aldrin	x	x	x	x	x	x
Allethrin				x		
Allyl Alcohol	x		x			
Allyl Chloride	x		x			
Alpha-BHC		x		x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Alpha-Naphthylamine			x			
Aluminum Fluoride	x		x			
Aluminum Sulfate	x		x			
Ametryne					x	
Aminodiphenyl			x			
Ammonia	x		x	x	x	x
Ammonium Acetate	x		x			
Ammonium Benzoate	x		x			
Ammonium Bicarbonate	x		x			
Ammonium Bichromate	x		x			
Ammonium Bifluoride	x		x			
Ammonium Bisulfite	x		x			
Ammonium Bromide	x		x			
Ammonium Carbamate	x		x			
Ammonium Carbonate	x		x			
Ammonium Chloride	x		x			
Ammonium Chromate	x		x			
Ammonium Citrate	x					
Ammonium Citrate Dibasic			x			
Ammonium Fluoborate	x		x			
Ammonium Fluoride	x		x			
Ammonium Hydroxide	x		x			
Ammonium Hypophosphite	x		x			
Ammonium Iodide	x		x			
Ammonium Nitrate	x		x			
Ammonium Oxalate	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ammonium Pentaborate	x		x			
Ammonium Persulfate	x		x			
Ammonium Silicofluoride	x		x			
Ammonium Sulfamate	x		x			
Ammonium Sulfide	x		x			
Ammonium Sulfite	x		x			
Ammonium Tartrate	x		x			
Ammonium Thiocyanate	x		x			
Ammonium Thiosulfate	x		x			
Amyl Acetate	x		x			
Aniline	x		x			
Anthracene		x		x		
Antimony		x		x	x	
Antimony Pentachloride	x		x			
Antimony Pentafluoride	x		x			
Antimony Potassium Tartrate	x		x			
Antimony Tribromide	x		x			
Antimony Trichloride	x		x			
Antimony Trifluoride	x		x			
Antimony Trioxide	x		x			
Antimycins			x			
Arsenic		x		x	x	x
Arsenic Acid	x		x			
Arsenic Disulfide	x		x			
Arsenic Pentaroxide			x			
Arsenic Pentoxide	x					

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Arsenic Trichloride	x		x			
Arsenic Trioxide	x		x			
Arsenic Trisulfide	x		x			
Asbestos (Fibrous)		x	x	x	x	
Atrazine				x	x	
Auramine			x			
Barium Cyanide	x		x			
Benefin				x		
Benzacephenanthrylene		x				
Benzene	x	x	x	x		
Benzidine		x	x	x		
Benzo(a)anthracene		x		x		
Benzo flouranthene		x		x		
Benzoic Acid	x		x			
Benzonitrile	x		x			
Benzo(ghi)perylene		x		x		
Benzopyrene		x		x	x	
Benzoyl Chloride	x		x			
Benzyl Chloride	x		x			
Beryllium		x		x	x	x
Beryllium Chloride	x		x			
Beryllium Fluoride	x		x			
Beryllium Nitrate	x		x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Beta-BHC		x		x	x	x
Beta-Naphthylamine			x			
Beta-Propiolactone			x			
Bidrin				x		
Bis-(2-Chloroethyoxy) Methane		x		x		
Bis-(2-Chloroethyl) Ether		x		x		
Bis-(2-Chloroisopropyl) Ether		x		x		
Bis-(2-Ethylhexyl) Phthalate		x		x		
Bis-(Chloromethyl) Ether		x	x	x		
Bromoform		x		x		
Butyl Acetate	x		x			
Butylamine	x		x			
Butyl Benzyl Phthalate		x		x		
Butyric Acid	x		x			
Cadmium		x		x	x	x
Cadmium Acetate	x		x			
Cadmium Bromide	x		x			
Cadmium Chloride	x		x			
Cadmium Fluborate			x			
Cadmium Fluoride			x			
Cadmium Fluosilicate			x			
Cadmium Lactate			x			
Cadmium Nitrate			x			
Cadmium Oxide			x			
Cadmium Phosphate			x			
Cadmium Sulfate			x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Cadmium Sulfate Hydrate			x			
Cadmium Sulfate Tetrahydrate			x			
Cadmium Sulfide			x			
Calcium Arsenate	x		x			
Calcium Arsenite	x		x			
Calcium Carbide	x		x			
Calcium Chromate	x		x			
Calcium Cyanide	x		x			
Calcium Dodecylbenzene-Sulfonate	x					
Calcium Hydroxide	x		x			
Calcium Hypochlorite	x		x			
Calcium Oxide	x		x			
Captan	x		x	x	x	
Carbaryl	x		x	x	x	
Carbofuran					x	
Carbon Disulfide	x		x			
Carbon Tetrachloride		x		x	x	
C.D.E.C.					x	
Cerium-144				x	x	x
Cesium-137				x	x	x
Chlordane	x	x	x	x	x	x
Chlorine	x		x	x	x	
Chlornaphazine (Bis(2-Chloroethyl) 2-Napthylamine)			x			
Chlorobenside				x	x	
Chlorobenzene	x	x	x	x		
Chlorobenzilate				x	x	

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Chlorodibromomethane		x		x		
Chloroethane		x		x		
Chloroethylene Bisthiocyanate				x		
Chloroform	x	x	x	x	x	
Chlorosulfonic Acid	x		x			
Chlorothion				x		
Chlor. Phenoxy Acid				x		
Chromates			x			
Chromic Acetate	x		x			
Chromic Acid	x		x			
Chromic Acid, Calcium Salt			x			
Chromic Acid, Lead Salt			x			
Chromic Acid, Zinc Salt			x			
Chromic Sulfate	x		x			
Chromium		x		x	x	x
Chromium Carbonyl			x			
Chromium Chloride			x			
Chromous Chloride	x		x			
Chromyl Chloride	x		x			
Chrysene		x		x		
Cinerin				x		
Cobaltous Bromide	x		x			
Cobaltous Fluoride	x		x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Cobaltous Formate	x		x			
Cobaltous Sulfamate	x		x			
Copper		x		x	x	x
Coumaphos	x		x	x		
Cresol	x		x			
Cupric Acetate	x		x			
Cupric Acetoarsenite	x					
Cupric Chloride	x		x			
Cupric Formate	x		x			
Cupric Glycinate	x		x			
Cupric Lactate	x		x			
Cupric Nitrate	x					
Cupric Oxalate	x		x			
Cupric Subacetate	x		x			
Cupric Sulfate	x		x			
Cupric Sulfate Ammoniated	x		x			
Cupric Tartrate	x		x			
Cuprous Bromide	x		x			
Cyanide		x	x	x	x	x
Cyanogen Chloride	x		x			
Cyclohexane	x		x			
Dacthal				x	x	
Dalapon	x		x			
Dasanit				x		
DDA					x	
DDD	x	x	x	x	x	x
DDG		x		x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
DDT	x	x	x	x	x	x
Def				x		
Delnav				x		
Delta-BHC		x		x	x	x
Demeton				x		
Diazinon	x		x	x	x	
Dibutyl Phthalates		x	x	x		
Dicamba	x		x		x	
Dicapthon				x		
Dichlobenil	x		x			
Dichlone	x		x	x	x	
Dichlorobenzidine			x			
Dichlorobromomethane		x		x		
Dichlorodifluoromethane		x		x		
Dichlorvos	x		x			
Dicofol	x		x	x	x	
Dieldrin	x	x	x	x	x	x
Diethylamine	x		x			
Diethyl Phthalate		x	x	x		
Difolatan				x		
Diisobutyl Phthalate			x	x		
Dilan				x	x	
Dimethoate				x	x	
Dimethylamine	x		x			
Dimethylaminoazobenzene			x			
Dimethyl Formamide			x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Dimethyl Phthalate		x	x	x		
Di-N-Butyl Phthalate		x	x	x		
Dinitrobenzene	x		x			
Dinitrophenol	x		x			
Dioctyl Phthalate		x	x	x		
Dioxins			x			
Diquat	x		x		x	
Disulfoton	x		x	x		
Disyston				x		
Diuron	x		x	x	x	
DNOC				x		
Dodecylbenzenesulfonic Acid	x		x			
Dursban	x		x	x		
Dyfonate				x		
Dylox	x		x	x	x	
Dyrene					x	
Endosulfan	x	x	x	x	x	
Endosulfan Sulfate		x		x		
Endrin	x	x	x	x	x	x
Endrin Aldehyde		x		x		
Epsilon B.H.C					x	x
Estradiol, 3-Benzoate			x			
Estradiol, Dipropionate			x			
Estrogenic Compounds			x			
Ethion	x		x	x	x	

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ethylbenzene	x	x	x	x		
Ethylenediamine	x		x			
Ethylenediaminetetra Acetic Acid (EDTA)	x		x			
Ethylene Glycol Dinitrate				x		
Ethyleneimine			x			
Ethylparathion				x		
Ethyl Phenylphosphonothiate				x		
Fenthion				x		
Ferric Ammonium Citrate	x		x			
Ferric Ammonium Oxalate	x		x			
Ferric Chloride	x		x			
Ferric Fluoride	x		x			
Ferric Nitrate	x		x			
Ferric Sulfate	x		x			
Ferrous Ammonium Sulfate	x		x			
Ferrous Chloride	x		x			
Ferrous Sulfate	x		x			
Fluoranthene		x		x		
Fluorene		x		x		
Fluoroacetic Acid and its Salts			x			
Fluoroacetic Acid, Sodium Salt			x			
Folpet					x	
Formaldehyde	x		x	x		
Formic Acid	x		x			
Fumaric Acid	x		x			
Furfural	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Furodan					x	
Gamma-BHC		x		x	x	x
Guthion	x		x	x	x	
Heptachlor	x	x	x	x	x	x
Heptachlor Epoxide		x	x	x	x	
Hexachlorobenzene		x		x	x	
Hexachlorobutadiene		x		x		
Hexachlorocyclopentadiene		x		x		
Hexachloroethane		x		x		
Hydrochloric Acid	x		x			
Hydrofluoric Acid	x		x			
Hydrogen Cyanide	x		x			
Hydroxylamine	x		x			
Indeno-(1,2,3-cd)-Pyrene		x		x		
Isodrin				x		
Isophorone		x		x		
Isoprene	x		x			
Isopropanolamine Dodecylbenzene-sulfonate	x					
Kelthane	x		x	x	x	
Kepone			x	x	x	
Lead		x		x	x	x
Lead-210				x	x	x
Lead Acetate	x		x			
Lead Arsenate	x		x			
Lead Chloride	x		x			
Lead Fluoborate	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Lead Fluoride	x		x			
Lead Iodide	x		x			
Lead Nitrate	x		x			
Lead Stearate	x		x			
lead Sulfate	x		x			
Lead Sulfide	x		x			
Lead Tetraacetate	x		x			
Lead Thiocyanate	x		x			
Lead Thiosulfate	x		x			
Lead Tungstate	x		x			
Lindane	x	x	x	x	x	x
Lithium Bichromate	x					
Lithium Chromate	x		x			
Malathion	x		x	x	x	
Maleic Acid	x		x			
Maleic Anhydride	x		x			
MCDA-2,4D,4 Chlor-2 Methylphenoxy Acetic				x		
Mercuric Acetate	x		x			
Mercuric Cyanide	x		x			
Mercuric Nitrate	x		x			
Mercuric Sulfate	x		x			
Mercuric Thiocyanate	x		x			
Mercurous Nitrate	x		x			
Mercury		x	x	x	x	x

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Mercury Benzoate			x			
Mercury Bromide			x			
Mercury Chloride			x			
Mercury, Chloroethyl			x			
Mercury, Chloromethyl			x			
Mercury Nitrate			x			
Mercury Oxide			x			
Mercury Sulfate			x			
Merphos				x		
Metasystox				x		
Methomyl				x		
Methoxychlor	x		x	x	x	
Methyl Bromide		x		x		
Methyl Chloride		x		x		
Methyl Chloromethyl Ether			x			
Methylene-Bis-Chloraniline			x			
Methylene Chloride		x		x		
Methyl Mercaptan	x		x			
Methyl Mercury					x	
Methyl Methacrylate	x		x			
Methyl Parathion	x		x	x	x	
Methyl Trithion				x	x	
Mevinphos	x		x	x	x	
Mirex			x	x	x	
Monoethylamine	x		x			
Monomethylamine	x		x			

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Mustard Gas (Bi-Chloroethyl Sulphide)			x			
Naled	x		x			
Naphthalene	x	x	x	x		
Naphthenic Acid	x		x			
N-Butyl Benzyl Phthalate				x		
Neburon					x	
Nickel		x		x	x	x
Nickel Ammonium Sulfate	x		x			
Nickel Carbonyl			x			
Nickel Chloride	x		x			
Nickel Formate	x		x			
Nickel Hydroxide	x		x			
Nickel Nitrate	x		x			
Nickel Sulfate	x		x			
Nitric Acid	x		x			
Nitrobenzene	x	x	x	x		
Nitrobiphenyl			x			
Nitrogen Dioxide	x		x			
Nitroglycerin				x		
Nitroglycerin + Ethylene Glycol Dinitrate				x		
Nitrophenol	x		x			
N-Nitrosodimethylamine		x	x	x		
N-Nitrosodi-N-Propylamine		x		x		
N-Nitrosodiphenylamine		x		x		
Org. Phos. Compnone				x		

TOXIC SUBSTANCE	LISTS(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Ovex				x		
Para-Chloro-Meta-Cresol		x		x		
Paraformaldehyde	x		x			
Paraoxon-O, O Diethyl O, P Netrophenyl Phos				x		
Paraquat					x	
Parathion	x		x	x	x	
PCN				x		
Pentachlorophenol	x	x	x	x		
Perthane				x	x	
Phenanthrene		x		x		
Phenol	x	x	x	x	x	x
Phorate				x	x	
Phorate Sulfone				x		
Phosdrin	x		x	x	x	
Phosgene	x		x			
Phosphoric Acid	x		x			
Phosphorus Oxychloride	x		x			
Phosphorus Pentasulfide	x		x			
Phosphorus Trichloride	x		x			
Phthalic Acid Esters			x			
Picloram			x	x		
Polybrominated Biphenyls (PBB)			x	x		

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Polychlorinated Biphenyls (PCB)	x	x	x	x	x	x
PCB 300			x			
PCB 400			x			
PCB 500			x			
PCB 1010				x		
PCB 1016		x		x		
PCB 1221		x		x		
PCB 1232		x		x		
PCB 1242		x	x	x		
PCB 1248		x		x		
PCB 1254		x	x	x		
PCB 1260		x	x	x		
Potassium Arsenate	x		x			
Potassium Arsenite	x		x			
Potassium Bichromate	x		x			
Potassium Chromate	x		x			
Potassium Cyanide	x		x			
Potassium Hydroxide	x		x			
Potassium Permanganate	x		x			
Prometone				x		
Prometryne				x		
Propanil				x		
Propazine				x		
Propham				x		
Propionic Acid	x		x			
Propionic Anhydride	x		x			
Propyl Alcchol	x		x			
Pyrene		x		x		
Pyrethrins	x		x	x		
Quinoline	x		x			
Radium-226				x	x	x
Radium-228				x	x	x

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Resorcinol	x		x			
Ronnel				x	x	
Rotenone			x			
Ruthenium-106				x	x	x
Selenium		x			x	x
Selenium Oxide	x		x			
Sevin	x		x	x	x	
Silver		x		x	x	x
Silvex				x	x	x
Simazine				x	x	
Simetryne				x		
Sodium Arsenate	x		x			
Sodium Arsenite	x		x			
Sodium Bichromate	x		x			
Sodium Bifluoride	x		x			
Sodium Bisulfite	x		x			
Sodium Chromate	x		x			
Sodium Cyanide	x		x			
Sodium Dodecylbenzene-Sulfonate	x					
Sodium Fluoride	x		x			
Sodium Hydrosulfide	x		x			
Sodium Hydroxide	x		x			
Sodium Hypochlorite	x		x			
Sodium Methylate	x		x			
Sodium Nitrite	x		x			
Sodium Pentachlorophenate				x		

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Sodium Phosphate Dibasic	x		x			
Sodium Phosphate Monobasic	x					
Sodium Phosphate Tribasic	x					
Sodium Selenite	x		x			
Sodium Sulfide	x		x			
S, S, S-Tributyl Phosphorotrithioate				x		
Stannous Fluoride	x		x			
Strobane, 2, 3, 6-Trichloropheylacetic Acid				x		
Strontium Chromate	x		x			
Strychnine	x		x			
Styrene	x		x			
Sulfuric Acid	x		x			
Sulfur Monochloride	x		x			
Systox				x		
TDE	x	x	x	x	x	x
Tedion				x	x	
Telodrin				x	x	
TEPP				x		
Terrachlor, Pentachloronitrobenzene				x		
Tetrachloroethyléne		x		x		
Tetrachlorophenol				x		
Tetradifon				x	x	
Tetraethyl Lead	x		x			
Tetraethyl Pyrophosphate	x		x			
Thallium		x		x	x	

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Thimet				x	x	
Thiodan	x	x	x	x	x	
Thorium-228	x	x	x	x	x	x
Toluene	x	x	x	x		
Toxaphene	x	x	x	x	x	x
Treflan				x		
Trichlorfon	x		x	x	x	
Trichloroethylene		x	x	x		
Trichlorofluoromethane		x		x		
Trichlorophenol	x		x			
Triethanolamine Dodecyl-Benzenesulfonate	x					
Triethylamine	x		x			
Trifluralin					x	
Trimethylamine	x		x			
Trithion				x	x	
Uranium Peroxide	x		x			
Uranyl Acetate	x		x			
Uranyl Nitrate	x		x			
Uranyl Sulfate	x		x			
Vanadium Pentoxide	x		x			
Vanadyl Sulfate	x					
Vegadex					x	
Vinyl Acetate	x		x			
Vinyl Chloride		x		x		
Vinyl Chloride Monomer			x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Xylene	x		x	x		
Xylenol	x					
Zectran	x		x			
Zinc		x		x	x	x
Zinc Acetate	x		x			
Zinc Ammonium Chloride	x		x			
Zinc Bichromate	x		x			
Zinc Borate	x		x			
Zinc Bromide	x		x			
Zinc Carbonate	x		x			
Zinc Chloride	x		x			
Zinc Cyanide	x		x			
Zinc Fluoride	x		x			
Zinc Formate	x					
Zinc Hydrosulfite	x		x			
Zinc Nitrate	x		x			
Zinc Phenosulfonate	x		x			
Zinc Phosphide	x		x			
Zinc Potassium Chromate	x		x			
Zinc Silicofluoride	x		x			
Zinc Sulfate	x		x			
Zinc Sulfate Monohydrate	x		x			
Zirconium Acetate	x		x			
Zirconium Nitrate	x		x			

TOXIC SUBSTANCE	LIST(S) ON WHICH SUBSTANCE APPEARS					
	311	6521	Md.	STORET	EDBD	CB
Zirconium Oxychloride	x		x			
Zirconium Potassium Fluoride	x		x			
Zirconium Sulfate	x		x			
Zirconium Tetrachloride	x		x			
Zytron				x		

ANNEX II

Directory of Researchers

Toxics in the Chesapeake Bay

This "Directory of Researchers" contains a listing of scientists who are presently working in the field of toxics, their affiliations and their specific research activities. The information was compiled from "A Chesapeake Bay Directory" by T. Lochen, M. Lynch, A. McErlean and K. Rutledge which was published as a partial fulfillment of this contract.

For researchers and research activities in other national and international areas the reader is referred to the "International Directory of Marine Scientists," issued by the Food and Agriculture Organization of the United Nations in 1977. Copies of this directory are available at the following locations:

EPA Region III
Chesapeake Bay Program Office
Curtis Building
6th and Walnut Streets
Philadelphia, PA 19106

Chesapeake Research Consortium
1419 Forest Drive
Suite 207
Annapolis, MD 21403

University of Maryland, Center for Environmental and Estuarine Studies
ATTN: Karen Rutledge
P.O. Box 775
Horn Point Rd.
Cambridge, MD. 21613

Virginia Institute of Marine Science
ATTN: Thomas Lochen
Gloucester Pt., VA 23062

ANNEX II

Directory of Researchers
Toxics in the Chesapeake Bay

Alden, R. W. Old Dominion University	Heavy metals - Chesapeake Bay.
Austin, J. Annapolis Field Office, U. S. Environmental Protection Agency	Herbicides - Chesapeake Bay.
Barnes, L. National Bureau of Standards	Toxic metals and organics - Chesapeake Bay.
Bass, M. L. Mary Washington College	Chlorine effects on freshwater fauna.
Bell, C. E., Jr. Old Dominion University	Kepone and heavy metals in jellyfish.
Bellama, J. M. University of Maryland	Pathways of metals in water.
Bender, M. E. Virginia Institute of Marine Science	Pesticides, kepone, heavy metals - Chesapeake Bay.
Bieri, R. H. Virginia Institute of Marine Science	Oil pollution.
Birkner, F. B. University of Maryland	Heavy metals in oysters.
Boon, D. Marine Products Laboratory, University of Maryland	Heavy metal concentrations in shellfish - Chesapeake Bay
Brinckman, F. National Bureau of Standards	Toxic metals and organics - Chesapeake Bay.
Bubeck, R. Annapolis Field Office, U. S. Environmental Protection Agency	Heavy metal analysis - Chesapeake Bay.

Buikema, A. L., Jr. Virginia Polytechnic Institute and State University	Petroleum toxicity in invertebrates.
Burton, D. T. Benedict Estuarine Research Laboratory, Academy of Natural Sciences of Philadelphia	Chlorine and bromine effects on aquatic fauna.
Cairns, J., Jr. Virginia Polytechnic Institute and State University	Toxicity of metals to freshwater biota.
Church, T. University of Delaware	Inorganic toxic substances.
Correll, D. L. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Herbicides and non-point source pollution - Chesapeake Bay.
Cunningham, J. Horn Point Environmental Laboratory, University of Maryland	Effects of herbicide manipulation on bay grass microcosms - Chesapeake Bay.
Eaton, A. Chesapeake Bay Institute, The Johns Hopkins University	Biogeochemistry of trace metals - Chesapeake Bay.
Grant, V. Chesapeake Bay Institute, The Johns Hopkins University	Biogeochemistry of trace metals - Chesapeake Bay.
Helz, G. University of Maryland	Geochemistry and analytical chemistry of trace organics and inorganics.
Hendricks, A. C. Virginia Polytechnic Institute and State University	Toxicity of metals to freshwater biota.
Hershner, C., Jr. Virginia Institute of Marine Science	Oil in salt marshes - Chesapeake Bay.

Hoffman, J. F. United States Naval Academy	Metals in sediments - Chesapeake Bay.
Huggett, R. J. Virginia Institute of Marine Science	Pesticides, kepone, oil pollution and heavy metals - Chesapeake Bay.
Johnson, P. Annapolis Field Office, U. S. Environmental Protection Agency	Heavy metals in sediments - Chesapeake Bay.
Munson, T. Annapolis Field Office, U. S. Environmental Protection Agency	Pesticide analysis of water - Chesapeake Bay.
Owen, B. Maryland Geological Survey	Trace metals and inorganic toxic substances - Chesapeake Bay.
Phelps, H. Federal City College	Heavy metals, chelation, and adsorption of cadmium by shellfish - Chesapeake Bay.
Ponnamperuma, C. University of Maryland	Diagenesis of organic compounds in sediments.
Roberts, M. H. Virginia Institute of Marine Science	Chlorine and bromine effects on aquatic fauna- Chesapeake Bay.
Roosenburg, W. Chesapeake Biological Laboratory, University of Maryland	Biology and toxicology of shellfish - Chesapeake Bay.
Shimoyama, A. University of Maryland	Organic compounds in sediment and water.
Smith, C. L. Virginia Institute of Marine Science	Chemistry of oil pollution.
Sommer, S. E. University of Maryland	Geochemistry of sediments, environmental effects of metal loading

Su, C. W. Virginia Institute of Marine Science	Hydrocarbon chemistry.
Wester, H. National Ecological Services Laboratory, National Park Service	Chlorine and submerged aquatic vegetation - Chesapeake Bay.
Wong, G. T. F. Old Dominion University	Heavy metals, radionuclides.
Wu, T. L. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Herbicides and non-point source pollution - Chesapeake Bay.
Young, R. Virginia Polytechnic Institute and State University	Kepone in benthic fauna.

ANNEX III

Data Files

Toxics in the Chesapeake Bay

ANNEX III

Data Files

Part A

Data File Index-Listed by Key Word

Toxics in the Chesapeake Bay

This index contains an alphabetical listing by key word of the data files in Part B. After each key word is a number or series of numbers which reference the page numbers of the particular file(s) within this report. Most of the files are referenced by more than one key word. Underlined numbers indicate files generated after January 1, 1973.

The new data files identified during this study are not included in the key word listing. These will be available when EDS completes the coding.

Seven radioactive substances are referenced in this list. After a careful review the remaining sixty-one radioactive substances in the EDBD Parameter Thesaurus were found to be of no use to this study.

ANNEX III

Part A
Data File Index-Listed by Key Word

Toxics in the Chesapeake Bay

2,4-D (sediment) - herbicide
none

2,4-D (suspended)
none

2,4-D (water)
140

2,4-D in bio material (bottom)
none

2,4-D in bio material (water)
none

2,4,5-T (sediment) - herbicide
none

2,4,5-T (suspended)
none

2,4,5-T (water)
140

2,4,5-T in bio material (sediment)
none

2,4,5-T in bio material (suspended)
none

2,4,5-T in bio material (water)
none

ABS
use surfactants

acaraben
use chlorobenzilate

aldrin (sediment) - insecticide
77

aldrin (water)
35, 140

aldrin in bio material (bottom)
none

aldrin in bio material (water)
35, 77

aliphatic hydrocarbons (dissolved)
none

aliphatic hydrocarbons (sediment)
145

aliphatic hydrocarbons (water)
54

aliphatic hydrocarbons in bio material (water)
none

alpha B.H.C.
use lindane

ametryne (water) - herbicide
none

ammonia (dissolved)
none

ammonia (interstitial)
none

ammonia (sediment)
none

ammonia (water)
35

amphibol (sediment) - asbestos
none

amphibol (water)
none

antimony (dissolved)
none

antimony (sediment)
none

antimony (water)
none

antimony in bio material (bottom)
none

antimony in bio material (water)
none

aromatic hydrocarbons (dissolved)
none

aromatic hydrocarbons (suspended)
none

aromatic hydrocarbons (water)
none

aromatic hydrocarbons in bio material (water)
39

arsenic (dissolved)
140

arsenic (sediment)
none

arsenic (suspended)
none

arsenic (water)
71, 147

arsenic in bio material (bottom)
none

arsenic in bio material (water)
127

asbestos
use amphibol. chrysotile.

atrazine (water) - herbicide
none

atrazine in bio material (bottom)
none

atrazine in bio material (water)
none

benzopyrene (water)
none

beryllium (dissolved)
none

beryllium (sediment)
none

beryllium (suspended)
none

beryllium (water)
147

beryllium in bio material (bottom)
none

beryllium in bio material (water)
none

beta B.H.C.
use lindane

B.H.C. (sediment) - insecticide
none

B.H.C. (water)
none

B.H.C. in bio material (water)
none

cadmium (dissolved)
140

cadmium (interstitial)
none

cadmium (sediment)
60, 65, 67, 81, 86, 116, 121, 123, 162

cadmium (suspended)
none

cadmium (water)
35, 62, 71, 103, 116, 147, 153

cadmium in bio material (bottom)
107, 162

cadmium in bio material (sediment)
none

cadmium in bio material (water)
29, 35, 43, 44, 46, 47, 69, 93, 110, 116, 127

captan (water) - fungicide
none

caracide
use chlorobenside

carbaryl (sediment) - pesticide
none

carbaryl (water)
none

carbofuran (water) - insecticide
none

carbon tetrachloride (water)
none

C.D.E.C. (water) - herbicide
none

cerium -144 (sediment)
49, 53

cesium -137 (sediment)
49, 53

cesium -137 (water)
128, 135

chlordane (sediment) - insecticide
77

chlordane (water)
35, 140

chlordane in bio material (bottom)
none

chlordane in bio material (water)
35, 39, 75, 77

chlorinated hydrocarbons (sediment) - pesticides
none

chlorinated hydrocarbons (water)
none

chlorinated hydrocarbons in bio material (water)
125

chlorine (sediment)
none

chlorine (water)
none

chlorine in bio material (bottom)
none

chlorine in bio material (water)
none

chlorobenside (water) - pesticide
none

chlorobenzilate (water) - insecticide
none

chloroform (water)
none

chromium (dissolved)
140

chromium (interstitial)
none

chromium (sediment)
60, 65, 67, 81, 101, 116, 121, 123, 153, 162

chromium (suspended)
none

chromium (water)
35, 62, 71, 116, 147, 153

chromium in bio material (bottom)
98, 162

chromium in bio material (sediment)
none

chromium in bio material (water)
35, 98, 116

chrysotile (water) - asbestos
none

copper (dissolved)
140

copper (interstitial)
none

copper (sediment)
50, 56, 58, 60, 65, 67, 81, 101, 116,
121, 123, 150, 162

copper (suspended)
none

copper (water)
35, 62, 71, 103, 116, 147, 150

copper in bio material (bottom)
98, 162

copper in bio material (sediment)
none

copper in bio material (water)
29, 35, 43, 44, 46, 47, 88, 93, 98, 116, 119

cyanide (sediment)
none

cyanide (water)
35, 147

cyanide in bio material (water)
35

dacthal (water) - herbicide
none

DCPA
use dacthal

DDA (sediment) - insecticide
none

DDA (water)
none

DDA in bio material (water)
none

DDD (sediment) - insecticide
77

DDD (water)
35, 140

DDD in bio material (bottom)
none

DDD in bio material (water)
29, 35, 39, 41, 75, 77, 91, 95,
110, 112, 114, 133

DDE (sediment) - insecticide
77

DDE (water)
35, 140

DDE in bio material (bottom)
none

DDE in bio material (water)
29, 35, 39, 41, 75, 77, 91, 95,
110, 112, 114, 133

DDT (dissolved) - insecticide
none

DDT (sediment)
77

DDT (water)
35, 140

DDT in bio material (bottom)
none

DDT in bio material (water)
29, 35, 39, 41, 73, 75, 77, 91, 95,
110, 112, 114, 133

delta B.H.C.
use lindane

detergents (water)
none

diazinon (sediment) - pesticide
none

diazinon (water)
none

diazinon in bio material (bottom)
none

diazinon in bio material (water)
none

dicamba (water) - herbicide
none

dicamba in bio material (water)
none

dichlone (water) - herbicide
none

dicofol (sediment) - insecticide
none

dicofol (water)
none

dieldrin (dissolved) - insecticide
none

dieldrin (sediment)
77

dieldrin (water)
35, 140

dieldrin in bio material (bottom)
none

dieldrin in bio material (water)
35, 39, 77, 91, 95, 110, 112, 114, 133

dilan (water) - insecticide
none

dilan in bio material (bottom)
none

dimethoate (water) - insecticide
none

dinitrophenol (water) - herbicide
none

dinitrophenol in bio material (water)
none

diquat (water) - herbicide
none

diquat in bio material (water)
none

diuron (water) - herbicide
none

dylox
use trichlorfon

dyrene (water) - fungicide
none

endosulfan
use thiodan

endrin (sediment)
77

endrin (water)
140

endrin in bio material (bottom)
none

endrin in bio material (water)
77

epsilon B.H.C.
use lindane

ethion (sediment) - pesticide
none

ethion (water)
none

folpet (water) - fungicide
none

fuel oil (water)
none

fungicide
use captan, dyrene, folpet

furadan
use carbofuran

gamma B.H.C.
use lindane

gasoline (water)
none

grease
use oils

guthion (water) - pesticide
none

guthion in bio material (water)
none

heavy metals
use cadmium, copper, lead, mercury, nickel, zinc

heptachlor (sediment) - insecticide
none

heptachlor (water)
35, 140

heptachlor epoxide (sediment) - insecticide
none

heptachlor epoxide (water)
none

heptachlor epoxide in bio material (bottom)
none

heptachlor epoxide in bio material (water)
none

heptachlor in bio material (bottom)
none

heptachlor in bio material (water)
35

herbicide
use 2,4-D, 2,4,5-T, ametryne, atrazine, CDEC, dacthal, dicamba, dichlone, dinitrophenol, diquat, diuron, hexachlorobenzene, neburon, paraquat, silvex, simazine, trifluralin

hexachlorobenzene (water) - herbicide
none

hexachlorobenzene in bio material (water)
none

hydrocarbons (dissolved)
none

hydrocarbons (sediment)
none

hydrocarbons (suspended)
none

hydrocarbons (water)
none

hydrocarbons in bio material (bottom)
none

hydrocarbons in bio material (water)
none

insecticide
use aldrin, BHC, carbofuran, chlordane, chlorobenzilate, DDA, DDD, DDE, DDT, dicofol, dieldrin, dilan, dimethoate, heptachlor, heptachlor epoxide, kepone, lindane, methoxychlor, perthane, phosdrin, ronnel, tedion, thimet, thiodan, thoxaphene, trichlorfon

ionium
use thorium -230

kelthane
use dicofol

kepone (water) - insecticide
none

kerosene (water)
none

lead (dissolved)
140

lead (interstitial)
none

lead (sediment)
50, 56, 58, 60, 65, 67, 81, 101, 116, 121, 123, 150, 153, 162

lead (suspended)
none

lead (water)
62, 71, 103, 116, 147, 150, 153

lead in bio material (bottom)
98, 162

lead in bio material (water)
29, 33, 69, 98, 110, 116, 127

lead -210 (water)
128

lindane (sediment) - insecticide
77

lindane (water)
140

lindane in bio material (bottom)
none

Lindane in bio material (water)
77

lubricating oil (water)
none

malathion (sediment) - pesticide
none

malathion (water)
none

malathion in bio material (bottom)
none

malathion in bio material (water)
none

MBAS
use surfactants

mercury (dissolved)
128, 140

mercury (interstitial)
none

mercury (sediment)
50, 56, 58, 65, 67, 116, 121, 123, 143, 150, 153

mercury (suspended)
128

mercury (water)
35, 71, 116, 128, 143, 147, 150, 153

mercury in bio material (bottom)
98

mercury in bio material (water)
29, 35, 69, 93, 98, 106, 110, 116, 119, 127, 131

methoxychlor (sediment) - insecticide
none

methoxychlor (water)
none

methoxychlor in bio material (water)
none

methoxy DDT
use methoxychlor

methyl mercury (water)
none

methyl mercury in bio material (water)
none

methylparathion (sediment) - pesticide
none

methylparathion (water)
none

methyltrithion (sediment) - pesticide
none

methyltrithion (water)
none

mevinphos
use phosdrin

mirex (sediment) - pesticide
none

mirex (water)
none

mirex in bio material (water)
none

mortality of amphibians (water)
none

mortality of benthic animals (bottom)
108, 160

mortality of benthic plants (bottom)
none

mortality of demersal fish (water)
none

mortality of mammals (water)
none

mortality of pelagic animals (water)
none

mortality of pelagic fish (water)
160

mortality of phytoplankton (water)
none

mortality of reptiles (water)
none

mortality of zooplankton (water)
153

neburon (water) - herbicide
none

nickel (dissolved)
140

nickel (interstitial)
none

nickel (sediment)
60, 65, 67, 116, 121, 123, <u>153</u>, <u>162</u>

nickel (suspended)
none

nickel (water)
35, 62, 103, 116, 147, <u>153</u>

nickel in bio material (bottom)
<u>162</u>

nickel in bio material (sediment)
none

nickel in bio material (water)
<u>29</u>, 116

oil degradation (sediment)
none

oil degradaton (water)
none

oil slick coverage (water)
none

oil slick occurrence (sediment)
none

oil slick occurrence (water)
none

oils (sediment)
<u>150</u>, <u>153</u>

oils (water)
<u>153</u>

oils in bio material (bottom)
none

oils in bio material (water)
none

ortho-para DDD
use DDD

ortho-para DDE
use DDE

ortho-para DDT
use DDT

para-para DDD
use DDD

para-para DDE
use DDE

para-para DDT
use DDT

paraquat (water) - herbicide
none

parathion (sediment)
none

parathion (water)
none

parathion in bio material (bottom)
none

parathion in bio material (water)
none

PCB
use polychlorinated biphenyls

perthane (water) - insecticide
none

pesticide
use carbaryl, chlorinated hydrocarbons, chlorobenside, diazinon, ethion, guthion, melathion, methylparathion, methyltrichion, mirex, trithion

phenols (dissolved)
none

phenols (sediment)
none

phenols (water)
35, 147

phenols in bio material (water)
35

phorate
use thimet

phosdrin (water) - insecticide
none

polychlorinated biphenyls (sediment)
77

polychlorinated biphenyls (water)
35, 52

polychlorinated biphenyls in bio material (bottom)
none

polychlorinated biphenyls in bio material (water)
29, 39, 75, 77, 95, 110, 112, 114

radium -226 (water)
128, 135

radium -228 (water)
128

ronnel (water) - insecticide
none

ruthenium -106 (sediment)
49, 53

selenium (dissolved)
none

selenium (sediment)
116

selenium (water)
116

selenium in bio material (bottom)
none

selenium in bio material (water)
116

sevin
use carbaryl

silver (dissolved)
none

silver (interstitial)
none

silver (sediment)
162

silver (suspended)
none

silver (water)
none

silver in bio material (bottom)
162

silver in bio material (water)
none

silvex (sediment) - herbicide
none

silvex (water)
140

simazine (water) - herbicide
none

soap
use detergents

surfactants (water)
140, 147

tar balls (water)
none

TDE
use DDD

tedion (water) - insecticide
none

telodrin (sediment)
none

telodrin (water)
none

tetradifon
use tedion

thallium (sediment)
none

thallium (water)
none

thallium in bio material (water)
none

thimet (water) - insecticide
none

thiodan (sediment) - insecticide
none

thiodan (water)
none

thorium -228 (water)
128

total 2,4-D
use 2,4-D

total 2,4,5-T
use 2,4,5-T

toxaphene (sediment) - insecticide
77

toxaphene (water)
140

toxaphene in bio material (bottom)
none

toxaphene in bio material (water)
77

toxins in bio material (bottom)
none

toxins in bio material (water)
none

trichlorfon (water) - insecticide
none

trifluralin in bio material (bottom) - herbicide
none

trifluralin in bio material (water)
none

trithion (sediment) - pesticide
none

trithion (water)
none

vegadex
use CDEC

zinc (dissolved)
140

zinc in bio material (sediment)
none

zinc (sediment)
50, 56, 58, 60, 65, 67, 81, 86, 101, 116, 121, 123, 150, 153, 162

zince in bio material (water)
29, 35, 43, 44, 46, 47, 69, 88, 93, 98, 116

zinc (water)
35, 62, 71, 103, 116, 147, 150, 153

zinc in bio material (bottom)
98, 162

ANNEX III

Data Files

Part B

Data Files

Toxics in the Chesapeake Bay

The data files included in Part B are arranged by EDBD accession number. The new files identified during this study can be found at the end of this section since they will be the most recent received by EDS. These new files arranged by date of initiation, earliest first. More new files may be added later in the order that they are identified. A brief description of each new file indicates the title, the period and general location of sampling, an abstract, the person to contact for the actual data and the date that the complete file was submitted to EDS for processing. The remainder of this information will be available from EDS as the files are entered into the system.

Areas adjacent to the Chesapeake Bay such as North Carolina, Delaware, New Jersey and Pennsylvania have been included when encountered.

The page numbers assigned to these data files are unique to this report. These files are assigned an EDBD accession number which should be used in inquiries to EDBD or in specific citations of files.

ENVIRONMENTAL DATA INDEX

THE ENCLOSED LISTING IS A SELECTION OF FILE DESCRIPTIONS FROM THE ENDEX SYSTEM. ITS PURPOSE IS TO GUIDE USERS WITH REQUIREMENTS FOR HISTORICAL ENVIRONMENTAL DATA TO HOLDERS OF THESE DATA.

THIS OUTPUT WAS SELECTED FROM THE ENTIRE FILE BASED ON CERTAIN CRITERIA SPECIFIED BY THE USER. THESE CRITERIA ARE REPEATED BELOW:

EDBD

THE OUTPUT IS IN TWO PARTS. FIRST IS A LISTING OF ALL THE EDBD'S SELECTED, PRINTED IN ID NUMBER ORDER. AT THE BACK OF EACH OUTPUT MAY BE A CROSS-INDEX, LISTING SUCH THINGS AS WHICH FILE DESCRIPTIONS DESCRIBE DATA COLLECTED ON EACH PLATFORM TYPE, OR WHICH FILE DESCRIPTIONS HAVE DATA IN EACH GRID LOCATOR. THIS SECTION WILL VARY DEPENDING ON THE REQUIREMENTS OF THE USER. THE ID NUMBER IS IN THE UPPER LEFT CORNER OF EACH FILE DESCRIPTION. THE FOLLOWING IS AN EXPLANATION OF FIELDS ON EACH PAGE.

FILE NAME -- TOP CENTER OF PAGE. IDENTIFIED BY DATA HOLDER. ALSO, TIME RANGE OF DATA COLLECTION.

PROJECTS -- LIST OF PROJECTS UNDER WHICH DATA CONTAINED IN FILES MAY HAVE BEEN COLLECTED.

GENERAL GEOGRAPHIC AREA -- BEGINS WITH CONTINENT OR OCEAN IN WHICH DATA WERE COLLECTED AND DESCRIBES SMALLER AND SMALLER AREAS TO GIVE USER A GENERAL AREA OF DATA COLLECTION.

ABSTRACT -- CONTAINS GENERAL INFORMATION ABOUT WHY THE DATA WERE COLLECTED AND WHERE, METHODS OF ANALYSIS AND PERTINENT CONCLUSIONS.

DATA AVAILABILITY -- CONTAINS RESTRICTIONS ON DATA USE, IF BLANK IT MEANS THERE ARE NO KNOWN RESTRICTIONS.

PLATFORM TYPES -- LIST OF TYPES OF PLATFORMS (IF ANY) USED TO COLLECT DATA.

ARCHIVE MEDIA -- MEDIA ON WHICH DATA ARE STORED AND A ROUGH ESTIMATE OF THE SIZE OF THE FILE.

FUNDING -- ORGANIZATION FUNDING THE DATA COLLECTION (IF KNOWN).

INVENTORY -- WHEN DETAILED INFORMATION ON STATION LOCATIONS, COUNTS OF OBSERVATIONS/SAMPLES, ETC. ARE AVAILABLE, IT WILL BE DENOTED HERE.

PUBLICATIONS -- PUBLICATIONS RESULTING FROM THIS DATA SET (LIST IS SOMETIMES CONDENSED).

CONTACT -- NAME, ADDRESS AND PHONE NUMBER OF PERSON TO CONTACT TO OBTAIN FURTHER INFORMATION OR ACTUAL COPIES OF DATA.

GRID LOCATOR -- A SERIES OF NUMBERS USED TO MAKE GEOGRAPHIC RETRIEVAL POSSIBLE ON A COMPUTER. LATITUDE AND LONGITUDE ARE COMBINED INTO A SINGLE NUMBER. THE WORLD METEOROLOGICAL ORGANIZATION (WMO) CODE IS USED TO IDENTIFY AREAS WHERE DATA WERE COLLECTED. THIS MAY BE A 4,6,8, OR 10 DIGIT NUMBER DEPENDING ON WHETHER THE DATA HOLDER CHOSE TO IDENTIFY AREAS DOWN TO 10-DEGREE SQUARES OF LATITUDE AND LONGITUDE OR TO 1-DEGREE, 10-MINUTE, OR 1-MINUTE SQUARES.

FOR A 4-DIGIT GRID LOCATOR THE NUMBERS ARE AS FOLLOWS:

DIGIT 1 -- QUADRANT OF WORLD: 1=NE, 3=SE, 5=SW, 7=NW.
DIGIT 2 -- TENS DIGIT OF LATITUDE.
DIGITS 3/4 -- HUNDREDS AND TENS DIGITS OF LONGITUDE.

THUS 7408 WOULD BE THE 10-DEGREE SQUARE OF WHICH THE POINT 40N AND 080W IS THE LOWER RIGHT HAND CORNER.

FOR A SIX DIGIT NUBMER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740825 WOULD IDENTIFY THE 1-DEGREE SQUARE OF 42N AND 085W.

WITH AN 8-DIGIT NUMBER, 74082534 REPRESENTS THE SQUARE AT 42-DEGREES, 30-MINUTES NORTH AND 085-DEGREES, 40-MINUTES WEST, OR 10-MINUTE SQUARE.

THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUTE SQUARE, OR A 10-DIGIT GRID LOCATOR (E.G., 7408253415 IS 42-DEGRESS 31-MINUTES NORTH AND 085-DEGRESS, 45-MINUTES WEST).

PARAMETER IDENTIFICATION SECTION -- THIS PORTION OF THE FILE DESCRIPTION CONTAINS A LIST OF PARAMETERS MEASURED, THE SPHERE IT WAS MEASURED IN, THE METHODS USED AND THE UNITS OF MEASUREMENT. IN ADDITION, SUCH INFORMATION AS THE NUMBER OF MEASUREMENTS OF EACH PARAMETER AND THE FREQUENCY (IF REGULARLY SPACED) ARE REPORTED. A SPECIALIZED ENDEX VOCABULARY IS AVAILABLE DEFINING THE PARAMETER, SPHERE, AND METHOD TERMS USED.

QUESTIONS CONCERNING THIS OUTPUT SHOULD BE RELAYED TO THE NODC OCEANOGRAPHIC SERVICES BRANCH (202) 634-7500 OR TO THE DATA INDEX BRANCH (202) 634-7298.

HEAVY METALS, PCBS, AND PESTICIDES IN STRIPED BASS TISSUES

DATA COLLECTED: FEBRUARY 1973 TO MARCH 1973

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., NORTH ATLANTIC, COASTAL, OUTER BANKS OF NORTH CAROLINA AND CHESAPEAKE BAY TRIBUTARIES

ABSTRACT:
SURVEY OF PESTICIDES, CBS, AND HEAVY METALS IN GONADS, MESENTERY FAT, LIVER, AND PEDUNCLE MUSCLE OF STRIPED BASS FROM THE OUTER BANKS, N C AND TRIBUTARY RIVERS TO LOWER CHESAPEAKE BAY. INTENDED AS BASELINE DATA ON THE MIGRANT SEGMENT OF THE COASTAL POPULATION.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
4 AREAS, 10 FISH PER AREA, 72 OBS PER FISH.

FUNDING:
BSFW AND VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN V MERRINER 207 781 2330
MAINE AUDUBON SOCIETY
GILSLAND FARM
FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):
730755 730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	4	STATIONS	1 TIME		
TIME	EARTH	STATION TIME	YMD	4	STATIONS	1 TIME		
SAMPLE OF DEMERSAL FISH	WATER	FORMALIN	10 FISH PER COLLECTION	80	OBS	1 TIME	BOTTOM	STRIPED BASS OBTAINED FROM COMMERCIAL CATCH, REPRESENTATIVE OF SIZE RANGE IN CATCH
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER,

029

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	480	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	CONCENTRATIONS IN GONAD, LIVER, MESENTERY FAT, AND PEDUNCLE MUSCLE RELATED TO AGE, LENGTH, WEIGHT, AND SEX OF STRIPED BASS
								ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE. RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
MERCURY IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE. RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
ZINC IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE. RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
CADMIUM IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE. RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
COPPER IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80	OBS	1 TIME	BOTTOM	ELECTRON CAPTURE

031

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH
NICKEL IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	80 OBS	1 TIME	BOTTOM	ELECTRON CAPTURE TECHNIQUE, TISSUES INCLUDE LIVER, GONAD, MESENTERY FAT, AND MUSCLE FROM PEDUNCLE, RESIDUES COMPARED TO SEX, AGE, LENGTH, AND WEIGHT OF FISH

DATA COLLECTED: DECEMBER 1971 TO APRIL 1972
RECEIVED: NOVEMBER 14, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
BOTH AERIAL AND GROUND SURVEYS WERE USED TO ESTIMATE THE NUMBER OF WATERFOWL, INCLUDING THE NUMBER OF SICK OR DEAD INDIVIDUALS IN VARIOUS PONDS AND CREEKS OF QUEEN ANNE'S AND CECIL COUNTIES, MARYLAND, DURING AND AFTER A SEVERE OUT BREAK OF LEAD POISONING. IN THE SUMMARY REPORT THE FACTORS INVOLVED IN THE OUTBREAK OF LEAD POISONING ARE DISCUSSED.

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT; FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE FILE OF DATA SHEETS AND A SUMMARY REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
SUMMARY REPORT AVAILABLE WILDLIFE MANAGEMENT ADMINISTRATIVE REPORT 73-4

CONTACT:
VERNON STOTTS 301-267-5195
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730786 730785 730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	6	STATIONS			PONDSOR CREEKS WITH LARGE COLLECTIONS OF WATERFOWL
TIME	EARTH	SAMPLING TIME	YMD	11	OBS			
COUNT OF BIRDS	AIR	VISUAL	NUMBER OF INDIVIDUALS	315000	OBS			BOTH AERIAL AND GROUND SURVEYS USED TO ESTIMATE NUMBER; ALSO ESTIMATED NUMBER OF INDIVIDUALS

033

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	14	OBS			SICK OR DEAD ALSO 33 CARCASSES FROM SEVERAL AREAS WERE NECROPSIED TO DETERMINE THE CAUSE OF DEATH
SPECIES DETERMINATION OF BIRDS	AIR	KEY	NUMBER OF SPECIES	2	OBS			

DATA COLLECTED: JANUARY 1965 TO PRESENT

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS, WATER ANALYSIS, ANALYSIS OF FISH FOR CAUSE OF DEATH, DATA FROM 221 KILLS, 72 IN 1973 THROUGH OCTOBER 11. COUNTS, SIZES, SPECIES LISTS, VALUES FOR FISHES INVOLVED. (SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS; REPORTS
1 FILE CABINET DRAWER

FUNDING:
MD DEPT NAT RES

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-267-5783
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730787 730795 730797

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	221 STATIONS			
TIME	EARTH	STATION TIME	YMDHML	221 STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	500 OBS			USUALLY SURFACE, SOME PROFILES
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	500 OBS			USUALLY SURFACE, SOME PROFILES
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1000 OBS			YSI PROBE MODEL 51, PROFILE READINGS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1000 OBS		AZIDE MODIFICATION	PROFILES MADE

035

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1000	OBS			PROFILE READINGS PROFILES MADE
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	100	OBS			PROFILES MADE
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1000	OBS			WATER RESOURCES ADMINISTRATION OF DEPARTMENT RUNS ANAYSES FOR PH, TOTAL ALKALINITY, HARDNESS, CYANIDE, PHENOLS, AMMONIA, METALS, PESTICIDES; SOME ANALYSES BY EPA LABORATORY
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	1000	OBS			
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	1000	OBS			
CYANIDE	WATER	TITRATION	COLORIMETRY	100	OBS			
PHENOLS	WATER	COLORIMETRY	COLORIMETRY	100	OBS			
AMMONIA	WATER	SPECTROPHOTOMETRY	COLORIMETRY	100	OBS			
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
[illegible]	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
POLYCHLORINATED BIPHENYLS	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDT	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDD	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDE	WATER	GAS CHROMATOGRAPH	PARTS PER	30	OBS			SPECIAL REQUEST

036

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		Y	BILLION				IF SUSPECTED POLLUTANT
DDD	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DIELDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
ALDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
CHLORDANE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
HEPTACHLOR	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30 OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
COUNT OF PELAGIC FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221 OBS			COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT
COUNT OF DEMERSAL FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221 OBS			COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221 OBS			
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221 OBS			
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221 OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221 OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
CYANIDE IN BIO MATERIAL	WATER	TITRATION	PARTS PER MILLION	30 OBS			GILLS, VISCERA, AND MUSCLE OF DEAD AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PHENOLS IN BIO MATERIAL	WATER	COLORIMETRY	PARTS PER MILLION	30 OBS			MORIBUND FISH
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30 OBS			
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30 OBS			
CHROMIUM IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PARTS PER MILLION	30 OBS			
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30 OBS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30 OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30 OBS			
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
ALDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			
HEPTACHLOR IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30 OBS			

DATA COLLECTED: APRIL 1972 TO PRESENT

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, NANTICOKE AND CHOPTANK RIVERS

ABSTRACT:
PESTICIDES AND PCB'S IN STRIPED BASS EGGS. 24 FISH COLLECTED FROM NANTICOKE AND CHOPTANK RIVERS, MARYLAND DURING SPAWNING SEASON IN 1972 AND 1973. BACKGROUND LEVELS SOUGHT AND POSSIBLE EFFECTSON SUCCESS OF SPAWNING EVALUATED. (ANALYSES PERFORMED BY EPA GULFBREEZE LAB, USFW SERVICE LAB IN COLUMBIA MISSOURI, AND WESTINGHOUSE OCEAN ENGINEERING CENTER (SEE THOMAS MUNSON FILE))

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
1 NOTEBOOK 2 INCHES THICK

FUNDING:
MARYLAND DEPARTMENT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH BOONE 301-267-5785
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

039

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	16	STATIONS			
TIME	EARTH	STATION TIME	YMD	16	STATIONS			
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	ONE-TENTH INCHES PER FISH	24	OBS			FEMALES ON SPAWNING RUN FROM WHICH TISSUE TAKEN FOR ANALYSES,
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	ONE-TENTH POUNDS	24	OBS			STRIPED BASS FEMALES ON SPAWNING RUN FROM WHICH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
AGE DATING OF DEMERSAL FISH	WATER	SCALES	YEARS	24	OBS			TISSUE TAKEN FOR ANALYSES, STRIPED BASS FEMALES ON SPAWNING RUN FROM WHICH TISSUE TAKEN FOR ANALYSES, STRIPED BASS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	DDT FRACTION AND TOTAL RESIDUE IN PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	24	OBS			STRIPED BASS EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	15	OBS			STRIPED BASS EGGS
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	12	OBS			STRIPED BASS EGGS
AROMATIC HYDROCARBONS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	7	OBS			BENZINE HEXACHORIDE IN STRIPED BASS EGGS

UPTAKE, METABOLISM, AND DISTRIBUTION OF DDT IN ORGANS OF THE BLUE CRAB, CALLINECTES SAPIDUS

DATA COLLECTED: MAY 1973 TO JUNE 1973

RECEIVED: DECEMBER 05, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, YORK RIVER

ABSTRACT:
DDD, DDE, DDT WERE MEASURED IN VARIOUS ORGANS OF BLUE CRABS FROM THE YORK RIVER, VIRGINIA.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
SEVERAL DATA SHEETS ARE INCLUDED IN M S THESIS

FUNDING:

INVENTORY:

PUBLICATIONS:
M S THESIS PETER F SHERIDAN, 1973 PESTICIDE LEVELS IN BLUE CRABS OF THE YORK RIVER ARE INCLUDED IN THESIS

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

041

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YMD	5	OBS			YORK RIVER VIRGINIA
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	7	OBS			CONCENTRATIONS IN GILLS, HEPATOPANCREAS, OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	7	OBS			CONCENTRATIONS IN GILLS, HEPATOPANCREAS,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	7	OBS			CONCENTRATIONS IN GILLS, HEPATOPANCREAS, OVARIES OR TESTES, CLAW MUSCLE, BACKFIN MUSCLE, HEART OF BLUE CRABS

DATA COLLECTED: MARCH 1972 TO FEBRUARY 1973

RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, YORK RIVER

ABSTRACT:
ZINC, COPPER AND CADMIUM LEVELS WERE MEASURED IN HARD CLAMS (MERCENARIA MERCENARIA) COLLECTED AT 35 LOCATIONS IN THE LOWER CHESAPEAKE BAY OVER A ONE YEAR PERIOD BEGINNING MARCH 1972.

DATA AVAILABILITY:
THE RESULTS OF THE STUDY ARE AVAILABLE ON DATA SHEETS FROM VIMS.

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
1200 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. PETER LARSEN 207 633 5572
MAINE DEPARTMENT OF MARINE RESOURCES
WEST BOOTHBAY HARBOR MAINE USA 04575

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	35 STATIONS			
TIME	EARTH	STATION TIME	YMDL	35 STATIONS			
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400 OBS			MERCENARIA MERCENARIA
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400 OBS			MERCENARIA MERCENARIA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400 OBS			MERCENARIA MERCENARIA
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	1 OBS			MERCENARIA MERCENARIA

HEAVY METALS IN HARD CLAMS AND OYSTERS
DATA COLLECTED: NOVEMBER 1972 TO DECEMBER 1972

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER JAMES RIVER, NEWPORT NEWS SHIPYARD

ABSTRACT:
130 OBSERVATIONS OF HEAVY METALS IN HARD CLAMS AND OYSTERS WERE OBSERVED AT 20 STATIONS IN THE NEWPORT NEWS SHIPYARD. COPPER, ZINC, AND CADMIUM WERE DETECTED BY ATOMIC ABSORPTION SPECTROMETRY

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS: REPORTS
DATA SHEETS FOR 20 STATIONS MEASURED FOR 2 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT TO BE SENT TO NEWPORT NEWS SHIPBUILDING AND DRYDOCK COMPANY

CONTACT:
ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	20	STATIONS			
TIME	EARTH	STATION TIME	YMDL	20	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	130	OBS			CRASSOSTREA VIRGINICA, MERCENARIA MERCENARIA
SPECIES	BOTTOM	KEY	NAME	130	OBS			CRASSOSTREA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DETERMINATION OF BENTHIC ANIMALS							VIRGINICA, MERCENARIA MERCENARIA

DATA COLLECTED: DECEMBER 1970 TO FEBRUARY 1971

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER,YORK RIVER, RAPPAHANNOCK RIVER, VIRGINIA

ABSTRACT:
HEAVY METALS IN OYSTERS (CRASSOSTREA VIRGINICA) WERE SAMPLED AT 95 STATIONS IN THE LOWER CHESAPEAKE BAY. DATA APPEARS IN WATER RESEARCH 1973, VOL 7 PP451-460

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 95 DAILY STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
WATER RESEARCH 1973 VOL 7, 451-460

CONTACT:
ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	95	STATIONS			
TIME	EARTH	STATION TIME	YMDL	450	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION, BODY WET WEIGHT	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	450	OBS		BOTTOM	CRASSOSTREA VIRGINICA

HEAVY METALS IN RANGIA CUNEATA
DATA COLLECTED: SEPTEMBER 1972

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, RAPPAHANNOCK RIVER

ABSTRACT:
HEAVY METALS IN THE CLAM (RANGIA CUNEATA) AT 60 STATIONS FROM 1972 TO THE PRESENT IN THE JAMES AND RAPPAHANNOCK RIVERS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 7 PARAMETERS AT 60 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 44

CONTACT:
ROBERT CROONENBERG 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	RIVER MILES	60	STATIONS			
TIME	EARTH	STATION TIME	YMDL	60	STATIONS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS			RANGIA CUNEATA
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	PERCENT SAND, SILT, CLAY	60	OBS			
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	CENTIMETERS	600	OBS			RANGIA CUNEATA
BIOMASS OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	GRAMS	600	OBS			RANGIA CUNEATA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NAME	60	OBS			RANGIA CUNEATA

048

CONCENTRATION OF SUSPENDED RADIOACTIVE WASTES IN BOTTOM DEPOSITS
DATA COLLECTED: JANUARY 1963 TO JUNE 1963

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
CONCENTRATION OF SUSPENDED RADIOACTIVE WASTES IN BOTTOM DEPOSITS WERE MEASURED MONTHLY AT 1 STATION IN THE LOWER YORK RIVER FOR 6 MONTHS. DATA APPEAR IN PROGRESS REPORT TO AEC CONTRACT NO AT 401-2789
(ADSORPTION AND LEACHING OF RADIONUCLIDES FROM NATURAL AND ARTIFICIAL SEDIMENTS)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
PROGRESS REPORT FOR 1 STATION COVERING A 6 MONTH PERIOD -100 OBS

FUNDING:
AEC

INVENTORY:

PUBLICATIONS:
PROGRESS REPORT TO AEC CONTRACT NO AT 401-2789

CONTACT:
J E WARINNER 703-642-2111 X30
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YML	6	STATIONS			
CERIUM-144	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			
CESIUM-137	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			
RUTHENIUM-106	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	100	OBS			

DATA COLLECTED: OCTOBER 1972 TO NOVEMBER 1972
RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
CHEMICAL ANALYSIS OF 50 CORES IN THE CHANNEL OF THE JAMES RIVER.

DATA AVAILABILITY:
COST OF REPRODUCTION AND SMALL HANDLING CHARGE

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 CORES

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 42

CONTACT:
ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	50	STATIONS			CENTER OF CHANNEL RED MARKER, BLACK MARKER
TIME	EARTH	STATION TIME	YMDL	148	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
CHEMICAL OXYGEN DEMAND	SEDIMENT	TITRATION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	143	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	TITRATION	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

A COMPARISON OF CHLORINATED HYDROCARBONS IN SURFACE AND SUBSURFACE SAMPLES IN THE YORK RIVER

DATA COLLECTED: OCTOBER 1970 TO OCTOBER 1971

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:
A REPORT COMPARING THE CHLORINATED HYDROCARBONS IN 14 SURFACE AND 14 SUBSURFACE SAMPLES IN THE YORK RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 14 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA IN VIMS THESIS

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

052

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	14	STATIONS			
TIME	EARTH	STATION TIME	YMDL	14	STATIONS			
POLYCHLORINATED BIPHENYLS	WATER	GAS CHROMATOGRAPHY	PARTS PER TRILLION	28	OBS		SURFACE FILM AND ONE METER DEPTH	

DATA COLLECTED: OCTOBER 1962 TO SEPTEMBER 1963

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER, GLOUCESTER POINT

ABSTRACT:
AN AEC PROGRESS REPORT BASED ON 500 MEASUREMENTS COLLECTED OVER 12 MOS. OF RADIO NUCLIDES IN BIO SEDIMENT AT ONE STATION IN THE YORK RIVER AT GLOUCESTER POINT, VA.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
500 OBS. IN A REPORT

FUNDING:
AEC

INVENTORY:

PUBLICATIONS:
AEC PROGRESS REPORT CONTRACT NO 40-12789 LEACHING OF RADIONUCLIDES FROM BIOSEDIMENT OF CRASSOSTREA VIRGINICA, BRANCHIDONTES RECURVUS, MOLGULA MANHATTENSIS AND BALANOIDES EBURNUS

CONTACT:
J E WARINNER 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1	STATIONS			
TIME	EARTH	STATION TIME	YMDL	1	STATIONS			
CERIUM-144	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500	OBS			
CESIUM-137	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500	OBS			
RUTHENIUM-106	SEDIMENT	GAMMA RAY SPECTROMETRY	SPECIFIC ACTIVITY	500	OBS			

DATA COLLECTED: JUNE 1970 TO NOVEMBER 1970

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
40 SEAWATER SURFACE FILM SAMPLES WERE COLLECTED IN THE LOWER YORK RIVER USING A DRUM-SKIMMING DEVICE IN CALM WATER IN A 6 MONTH PERIOD. FATTY ACIDS AND ALIPHATIC HYDROCARBONS WERE EACH TESTED BY THIN LAYER CHROMATOGRAPHY AND GAS CHROMATOGRAPHY FOR 2 SAMPLES AT EACH STATION.
(SAMPLES COLLECTED WITH DRUM-SKIMMING DEVICE AND OBSERVATIONS ARE LIMITED TO CALM SEA CONDITIONS)

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
1 REPORT OF 40 BOTTLE STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	40	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	40	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	40	OBS			
FATTY ACIDS	WATER	THIN LAYER CHROMATOGRAPHY	MICRO GRAMS PER LITER	80	OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	
FATTY ACIDS	WATER	GAS CHROMATOGRAPHY	MICRO GRAMS PER LITER	80	OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ALIPHATIC HYDROCARBONS	WATER	THIN LAYER CHROMATOGRAPHY	MICRO GRAMS PER LITER	80 OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	
ALIPHATIC HYDROCARBONS	WATER	GAS CHROMATOGRAPH Y	MICRO GRAMS PER LITER	80 OBS		SURFACE TO SUB-SURFACE LESS THAN ONE METER	

DATA COLLECTED: JUNE 1971 TO AUGUST 1971 RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES AND ELIZABETH RIVERS

ABSTRACT:
9 CHEMICAL ANALYSES WERE PERFORMED ON SEDIMENT SAMPLES TAKEN IN 15 FT CORES AT 227 MID CHANNEL LOCATIONS ALONG THE JAMES AND ELIZABETH RIVERS, FROM JUNE THROUGH AUGUST 1971. THE RESULTS OF THE STUDY ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS, AND HAVE BEEN PUBLISHED IN THE CORPS OF ENGINEERS REPORT, CONTRACT NO. DACW 65-71-C-0047.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
5400 OBS

FUNDING:
CORP OF ENGINEERS REPORT CONTRACT NO. DACW 65-71-C-0047

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	227	STATIONS			CENTER OF CHANNEL, BLACK MARKER, RED MARKER
TIME	EARTH	STATION TIME	YMDL	227	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PERCENT	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						CORE RECOVERY	
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600 OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

STUDY OF CHANNEL SEDIMENTS
DATA COLLECTED: JUNE 1971 TO AUGUST 1971

RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA THIMBLE SHOAL CHANNEL, NEWPORT NEWS CHANNEL, NORFOLK HARBOR CHANNEL, RAPPAHANNOCK RIVER CHANNEL, CAPE HENRY SHOAL CHANNEL, YORK RIVER SPIT CHANNEL, YORK RIVER ENTRANCE CHANNEL

ABSTRACT:
A STUDY OF CHANNEL SEDIMENTS IN 7 LOWER CHESAPEAKE BAY RIVERS WAS MADE FROM THE SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY AND SENT IN A REPORT TO THE CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 9 PARAMETERS AT 7 STATIONS - 200 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT TO CORPS OF ENGINEERS

CONTACT:
ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP POSITIONS	7	STATIONS			
TIME	EARTH	STATION TIME	YMDL	7	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	SULFURIC ACID DIGESTION

SEDIMENT ANALYSIS FOR HEAVY METALS
DATA COLLECTED: OCTOBER 1969 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:
ANALYSIS OF HEAVY METALS IN POTOMAC RIVER SEDIMENTS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
384 SEDIMENT SAMPLES ANALYZED FOR 12 HEAVY METALS FOR 48 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	3	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	384	STATIONS	MONTHLY		
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
MANGANESE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
SODIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
POTASSIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384	OBS	MONTHLY		
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION	PARTS PER	384	OBS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		SPECTROMETRY	MILLION				
COBALT	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384 OBS	MONTHLY		
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384 OBS	MONTHLY		
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384 OBS	MONTHLY		
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	384 OBS	MONTHLY		
BORON	SEDIMENT	COLORIMETRY	PARTS PER MILLION	384 OBS	MONTHLY		CARMINE DYE

061

HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY
DATA COLLECTED: OCTOBER 1969 TO PRESENT

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA

ABSTRACT:
HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY OF PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

DATA AVAILABILITY:
NOT ALL STATIONS AT SURFACE AND BOTTOM FOR HEAVY METALS. METALS ARE EXAMINED AT SURFACE AND BOTTOM ON CHESAPEAKE BAY AND POTOMAC RIVER, SURFACE ONLY ON PATUXENT RIVER

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
38 PARAMETERS MEASURED MONTHLY

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3194
BENEDICT ESTUARINE LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	768	STATIONS	MONTHLY		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
MANGANESE	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SODIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
POTASSIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
ZINC	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
		SPECTROMETRY	MILLION				BOTTOM	
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
COBALT	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
STRONTIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
BORON	WATER	COLORIMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	CARMINE DYE
DEPTH	WATER	WIRE LENGTH	METERS	768	OBS	MONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	768	OBS	MONTHLY	SURFACE AND BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	768	OBS	MONTHLY	SURFACE AND BOTTOM	MOHR
CHLORIDE	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	MOHR
CALCIUM	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SILICATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	AMMONIUM MOLYBDATE
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	.KJELDAHL NITROGEN S-WATER M-TITRATION U-PARTS PER MILLION T-OBS Q-768 F-MONTHLY H-SURFACE AND BOTTOM R-DISTILLATION, AUTOANALYZER
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	WINKLER
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	5 DAY STABILITY METHOD
TOTAL CARBON DIOXIDE	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
WEATHER	AIR	VISUAL	GENERAL OBSERVATIONS	768	OBS	MONTHLY		CBI DATA REPORT 18 REF 54-5
MAGNESIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SULFATE	WATER	NEPHELOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	BARIUM SULFATE
NITRITE	WATER	SPECTROPHOTOMETRY	PARTS PER	768	OBS	MONTHLY	SURFACE AND	ALPHA NAPTHLAMIN

063

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			MILLION				BOTTOM	E
NITRATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	CADMIUM REDUCTION
AMMONIA	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	DISTILLATION, AUTOANALYZER
COUNT OF MICROBIOTA	WATER	FILTRATION	MILLIGRAMS PER LITER	768	OBS	MONTHLY	SURFACE AND BOTTOM	BACTERIAL COUNT
LIGHT ATTENUATIO N	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
BICARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ALKALINITY	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	AS CALCIUM CARBONATE

DATA COLLECTED: JANUARY 1972 TO JANUARY 1973 RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE, MURDERKILL RIVER, ST JONES RIVER

ABSTRACT:
SURVEY OF TRACE METAL CONCENTRATIONS IN THE SEDIMENTS OF THE MURDERKILL AND ST JONES RIVERS DELAWARE IN ORDER TO ESTABLISH BASELINES PRIOR TO OPERATION OF THE KENT COUNTY REGIONAL SEWARGE TREATMENT PLANT

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
25 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
DELAWARE BAY REPORT SERIES VOL 3 REPORT NO 3 UNIV OF DEL, NEWARK DELAWARE

CONTACT:
FREDERICK BOPP 302-738-2842
COLLEGE OF MARINE STUDIES
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795

065

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	56	STATIONS			
TIME	EARTH	STATION TIME	YML	1	STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDROCHLORIC ACID EXTRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDROCHLORIC ACID EXTRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	56	OBS			SEDIMENT FRACTION FINER THAN 63 MICRONS, HYDRO-CHLORIC ACID EXTRACTION

TRACE METAL ENVIRONMENTS NEAR SHELL BANKS IN DELAWARE BAY

DATA COLLECTED: JANUARY 1972 TO JANUARY 1973

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, DELAWARE BAY, DELAWARE

ABSTRACT:
SURVEY OF TRACE METAL CONCENTRATIONS IN SEDIMENTS COLLECTED FROM THE DELAWARE BAY. REPORT CHARACTERIZED TRACE METALS TO THEIR PRIMARY SOURCE AND THE MAJOR FACTOR INFLUENCING THEIR DISTRIBUTION

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
46 PAGES, MAPS ON THE DISTRIBUTION OF TRACE METALS

FUNDING:

INVENTORY:

PUBLICATIONS:
DELAWARE BAY REPORT SERIES VOL 3 REPORT NO 2 UNIV OF DEL, NEWARK, DEL

CONTACT:
FREDERICK BOPP 302-738-2842
COLLEGE OF MARINE STUDIES
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730785 730795 730794 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	92	STATIONS			
TIME	EARTH	STATION TIME	YML	1	STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92	OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	92 OBS			63 MICRON SEDIMENT FRACTION, HCL EXTRACTION

068

DATA COLLECTED: NOVEMBER 1972 TO OCTOBER 1973
RECEIVED: AUGUST 08, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, CRANEY ISLAND, BUCKROE BEACH

ABSTRACT:
COMPARATIVE STUDY OF BIOTIC AND ABIOTIC PARAMETERS OF CRANEY ISLAND AND BUCKROE BEACH AREAS. SURVEY OF FISH, INVERTEBRATES AND HEAVY METALS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
120 SAMPLING EFFORTS

FUNDING:
US ARMY CORPS OF ENGINEERS

INVENTORY:

PUBLICATIONS:
REPORT SENT TO U S ARMY CORPS OF ENGINEERS

CONTACT:
RAY BIRDSONG 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	12	STATIONS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	120	OBS	MONTHLY	SURFACE	
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	120	OBS	MONTHLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	120	OBS	MONTHLY	SURFACE	
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	120	OBS	MONTHLY	SURFACE	10 FOOT OTTER TRAWL, 1 INCH MESH, BEACH SEINE

069

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER STATION	120	OBS	MONTHLY	SURFACE	
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	WEIGHT PER STATION	120	OBS	MONTHLY	SURFACE	10 FOOT OTTER TRAWL, 1 INCH MESH, BEACH SEINE
LENGTH OF DEMERSAL FISH	WATER	STANDARD LENGTH	MILLIMETERS	120	OBS	MONTHLY	SURFACE	SUBSAMPLE FROM EACH TRAWL
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	120	OBS	MONTHLY	BOTTOM	BAG DREDGE, OTTER TRAWL, PETERSON GRAB
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER STATION	120	OBS	MONTHLY	BOTTOM	
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	4	OBS			VARIETY OF SPECIES OF FISH, 4 SAMPLES PER YEAR

HEAVY METAL DATA SUMMARY FOR STATE WATERS; WATER QUALITY MONITORING NETWORK
1968-1971

DATA COLLECTED: JANUARY 1968 TO DECEMBER 1971

RECEIVED: AUGUST 08, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA, BIG SANDY RIVER BASIN, CLINCH RIVER BASIN, HOLSTON RIVER BASIN, NEW RIVER BASIN, ROANOKE RIVER BASIN, CHOWAN RIVER BASIN, SHENANDOAH RIVER BASIN, RAPPAHANNOCK RIVER BASIN, YORK RIVER BASIN, JAMES RIVER BASIN, CHESAPEAKE BAY, YADKIN RIVER BASIN, ALBEMARLE SOUND, POTOMAC RIVER BASIN

ABSTRACT:
REPORT CONTAINING HEAVY METAL CONCENTRATIONS IN THE MAJOR RIVER BASINS OF VIRGINIA INCLUDING CHESAPEAKE BAY AND TRIBUTARIES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
REPORTS
171 PAGES; 12,533 OBSERVATIONS FROM 700 SAMPLING LOCATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
BASIC DATA BULLETIN NO 40, AUGUST 1972 TECHNICAL SERVICES DIVISION, RICHMOND VA

CONTACT:
MICHAEL A BELLANCA 804-770-5518
VIRGINIA STATE WATER QUALITY CONTROL BOARD
TECHNICAL SERVICES DIVISION
RICHMOND VIRGINIA USA 23230

071

GRID LOCATOR (LAT):
730787 730777 730767 730788 730778 730768 730766 730776 730788

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILE	700	STATIONS			NOT ALL STATIONS HAVE BEEN SAMPLED OVER REPORT PERIOD
TIME	EARTH	STATION TIME	YMDL	2191	STATIONS			
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1890	OBS			
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1873	OBS			
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1589	OBS			
COPPER	WATER	ATOMIC ABSORPTION	MG PER LITER	1891	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
		SPECTROMETRY						
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1589	OBS			
MANGANESE	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1549	OBS			
ARSENIC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	523	OBS			
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	1094	OBS			
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG PER LITER	591	OBS			

THE ROLE OF AN ANADROMOUS FISH, THE ALEWIFE, ALOSA PSEUDOHARENGUS (WILSON) IN PESTICIDE TRANSPORT

DATA COLLECTED: APRIL 1970 TO JUNE 1970
RECEIVED: AUGUST 27, 1973

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, RAPPAHANNOCK RIVER, POTOMAC RIVER

ABSTRACT:
SURVEY OF THE LEVEL OF CONTAMINATION DUE TO DDT AND ITS METABOLITES IN THE ALEWIFE, ALOSA PSEUDOHARENGUS AND A DESCRIPTION OF THE ROLE OF THE ANADROMOUS FISH IN PESTICIDE TRANSPORT

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
34 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, T A BARNARD JR 1971

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			JAMES, RAPPAHANNOCK AND POTOMAC RIVERS CONSIDERED AS ONE STATION EACH
TIME	EARTH	STATION TIME	YMDL	1	STATIONS			SPAWNING RUN FROM 15 APR TO 15 JUNE, 1970
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MILLIMETERS	96	OBS			ALEWIFE, ALOSA PSEUDOHARENGUS
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS	96	OBS			ALEWIFE, ALOSA PSEUDOHARENGUS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER MILLION	96	OBS			TOTAL DDT RESIDUES; DDE, DDD AND DDT; WHOLE FISH; ALEWIFE, ALOSA PSEUDOHARENGUS

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972
RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
SURVEY OF ZOOPLANKTON IN THE CHESTER RIVER, MARYLAND. STUDY INCLUDES HYDROGRAPHIC DATA, COMMUNITY STRUCTURE ANALYSES, BIOMASS ESTIMATES AND LEVELS OF CHLORINATED HYDROCARBON CONCENTRATIONS IN ZOOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
192 SAMPLES PROCESSED

FUNDING:
WESTINGHOUSE, MARYLAND DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE, VOL 1, 2, 3

CONTACT:
JOSEPH FORNS 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION
OCEAN RESEARCH LABORATORY, BOX 1771
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	12	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	24	OBS		SURFACE AND 1 METER FROM BOTTOM	BECKMAN RS-5; RUNNING TIDE IN MORNING
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	24	OBS		SURFACE AND 1 METER FROM BOTTOM	
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, WHOLE	NUMBER PER CUBIC METER	192	OBS		1 METER FROM SURFACE, 1 METER FROM BOTTOM	202 MICRON MESH UNISCO STANDARD 1/2 METER NET;

(075

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES, NUMBER OF INDIVIDUALS PER SPECIES, PERCENT COMPOSITION	192	OBS		1 METER FROM SURFACE, 1 METER FROM BOTTOM	1000 MICRON MESH; FLOW RATE AND EFFICIENCY CALCULATED, APPROXIMATELY 30 SPECIES
DIVERSITY INDEX OF ZOOPLANKTON	WATER	MARGALEF	UNITS	192	OBS			SPACIAL AND TEMPORAL DISTRIBUTIONS
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	NUMBERS	192	OBS			COMPARISON OF STATIONS AND SAMPLE VARIATION AND CORRELATION
BIOMASS OF ZOOPLANKTON	WATER	WET WEIGHT	MILLIGRAMS PER CUBIC METER	192	OBS			
BIOMASS OF ZOOPLANKTON	WATER	DRY WEIGHT	MILLIGRAMS PER CUBIC METER	192	OBS			DRIED AT 60 DEGREES
VOLUME DETERMINATION OF ZOOPLANKTON	WATER	SETTLING	MILLIGRAMS PER LITER	192	OBS			
BIOMASS OF ZOOPLANKTON	WATER	ASH WEIGHT	MILLIGRAMS ORGANIC CARBON PER CUBIC MILLIMETER	192	OBS			IGNITION AT 200 DEGREES C; WEIGHED
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	MILLIGRAMS PER CUBIC METER	192	OBS			ZOOPLANKTON

076

DATA COLLECTED: NOVEMBER 1971 TO JANUARY 1973 RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
THIS PORTION OF THE CHESTER RIVER, (MARYLAND) STUDY WAS CONCERNED WITH THE PRESENCE OF CHLORINATED HYDROCARBONS IN THE BIOTA AND SEDIMENT IN THE RIVER. RESEARCH EFFORTS WERE DIRECTED TO DETERMINE THE EXISTING LEVELS OF CHLORINATED HYDROCARBONS. THEIR SOURCES, SINKS AND FLUCTUATIONS. CHLORINATED HYDROCARBONS FOUND IN SEDIMENT WERE CORRELATED TO MEAN GRAIN SIZE DIAMETER AND WITH RESPECT TO DISTRIBUTION ALONG THE MAIN RIVER COURSE.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
150 SEDIMENT SAMPLES; 100 SAMPLES OF THE BIOTA

FUNDING:
WESTINGHOUSE, MARYLAND DEPT OF NATURAL RESOURCES

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE, VOL 1, 2, 3

CONTACT:
THOMAS MUNSON 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION
OCEAN RESEARCH LABORATORY, BOX 1771
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	25	STATIONS	QUARTERLY		
TIME	EARTH	STATION TIME	YMDL	150	STATIONS	25 STATIONS ON A QUARTERLY BASIS		
LINDANE	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	CHLORINATED HYDROCARBONS
ALDRIN	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150	OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DIELDRIN	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
ENDRIN	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
DDT	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
DDD	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
DDE	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
TOXAPHENE	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
CHLORDANE	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
POLYCHLORINATED BIPHENYLS	SEDIMENT	GAS CHROMATOGRAPHY	PARTS PER BILLION	150 OBS	25 STATIONS ON A QUARTERLY BASIS	BOTTOM	
LINDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100 OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTREA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
ALDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100 OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTREA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100 OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS. YELLOW PERCH
ENDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTR EA VIRGINICA,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
TOXAPHENE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTREA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTREA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	100	OBS			MYA ARENARIA, SOFT SHELL CLAM; CRASSOSTREA VIRGINICA, OYSTER; CALLINECTES SAPIDUS, BLUE CRAB; MORONE AMERICANA, WHITE PERCH; MORONE PERCAFLAVIS, YELLOW PERCH

080

TRACE METAL CONCENTRATIONS IN SEDIMENTS OF CHESTER RIVER
DATA COLLECTED: NOVEMBER 1971 TO SEPTEMBER 1972

RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
SURVEY OF TRACE METALS IN SEDIMENTS OF THE CHESTER RIVER, MARYLAND. CONCENTRATIONS OF METALS CORRELATED TO GRAIN-SIZE CHARACTERISTICS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
25 SEDIMENT SAMPLES; 6 TRACE METALS

FUNDING:

INVENTORY:

PUBLICATIONS:
CHESTER RIVER STUDY, WESTINGHOUSE VOL 1, 2, 3

CONTACT:
HAROLD PALMER 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION
OCEAN RESEARCH LABORATORY, BOX 1771
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796

180

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	25	STATIONS			
TIME	EARTH	STATION TIME	YMDL	25	STATIONS			
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25	STATIONS			CORRELATED TO GRAIN-SIZE

PARAMETER IDENTIFICATION SECTION:

CHARACTERISTICS

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25 STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	25 STATIONS			CORRELATED TO GRAIN-SIZE CHARACTERISTICS

DATA COLLECTED: NOVEMBER ... TO 1975 RECEIVED: MARCH 0. 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, WARE RIVER, SEVERN RIVER

ABSTRACT:

TWO TIDAL MARSHES ALONG THE SEVERN AND WARE RIVERS, VIRGINIA ARE SAMPLED MONTHLY OVER A TWO YEAR PERIOD TO DETERMINE FAUNAL POPULATION SIZES AND FLORAL PRODUCTIVITY. RESPIRATION RATES ARE MEASURED ON BOTH MACROFAUNA AND BENTHOS. COMPARISONS ARE MADE BETWEEN ONE CONTROL MARSH AND ONE MARSH TREATED WITH OIL.
(AVAILABLE AS VIMS PH D DISSERTATION, JUNE 1975)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SIX NOTEBOOKS OF 25 TO 50 DATA SHEETS EACH

FUNDING:
THE VIRGINIA INSTITUTE OF MARINE SCIENCE

INVENTORY:

PUBLICATIONS:

CONTACT:

CARL HERSHNER 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			TWO TIDAL MARSHES USED FOR SAMPLING
TIME	EARTH	STATION TIME	YMDH	96	OBS	MONTHLY		STUDY WILL CONTINUE FOR AN APPROXIMATE TWO YEAR PERIOD
COUNT OF INSECTS	LAND	VISUAL	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH
SPECIES DETERMINATION OF INSECTS	LAND	KEY	NUMBER PER SPECIES	240	OBS	MONTHLY		TEN OBSERVATIONS PER MONTH

083

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	190	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER PER SPECIES AND POPULATION SIZE	190	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS	190	OBS	MONTHLY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		SEVERAL OBSERVATIONS IN EACH MARSH PER MONTH; MARK-RECAPTURE; MARSH DECAPODS ONLY
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		QUADRAT COUNTS OF MARSH GASTROPODS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO- FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER SPECIES AND POPULATION SIZE	96	OBS	MONTHLY		CORE SAMPLING OF MARSH MACRO- AND MEIO- FAUNA; COMMUNITY DIVERSITY INDICES CALCULATED
BIOMASS OF BENTHIC PLANTS	BOTTOM	DRY WEIGHT	GRAMS PER M2	96	OBS	MONTHLY		PRODUCTIVITY OF MARSH GRASS BY CLIPPED

084

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF BIRDS	AIR	VISUAL	NUMBER PER SPECIES	96	OBS	MONTHLY		QUADRAT SIGHTINGS OF BIRDS INHABITIN G MARSH AREA
SPECIES DETERMINATION OF BIRDS	AIR	KEY	NUMBER PER SPECIES	96	OBS	MONTHLY		SIGHTINGS OF BIRDS INHABITIN G MARSH AREA

DATA COLLECTED: JULY 1972 TO JULY 1972 RECEIVED: APRIL 29, 1974

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA PRESENTED FOR 19 STATIONS IN THE C AND D CANAL. SAMPLE ANALYSIS BY X-RAY ACTIVATION AND REPORTED AS A PLOT FOR EACH SAMPLE.
(IN APPENDIX 13 FINAL REPORT, NRI REFERENCE NUMBER 73-112, METHODS OF F.C. YOUNG, M.L. ROUSH, AND P.G. BERMAN, TECHNICAL REPORT 72-098, DEPT. PHYSICS AND ASTRONOMY, UNIVERSITY OF MD.)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
19 PAGES IN REPORT

FUNDING:
U.S. ARMY CORPS OF ENGINEERS CONTRACT NO DACW 61-71-C-0062

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	19	STATIONS			
TIME	EARTH	STATION TIME	YMD	19	STATIONS			
ALUMINUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19	STATIONS			
CADMIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19	STATIONS			
IRON	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19	STATIONS			
MANGANESE	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19	STATIONS			
POTASSIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19	STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
STRONTIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19 STATIONS			
TITANIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19 STATIONS			
YTTRIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19 STATIONS			
ZINC	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19 STATIONS			
ZIRCONIUM	SEDIMENT	X-RAY FLUORESCENC E	COUNTS	19 STATIONS			

DATA COLLECTED: FEBRUARY 1969 TO AUGUST 1972

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, TRIBUTARIES, EASTERN SHORE OF VIRGINIA

ABSTRACT:
VARIATION OF BLOOD SERUM CHLORIDE, MAJOR CATIONS, OSMOTIC CONCENTRATION, PROTEIN, GLUCOSE, TOTAL NINHYDRIN POSITIVE SUBSTANCES, AND TRACE METALS WERE DETERMINED IN NATURE BLUE CRABS, CALLINECTES SAPIDUS, TAKEN FROM A RANGE OF ENVIRONMENTAL CONDITIONS IN TIDAL WATERS OF VIRGINIA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS
SEVERAL THOUSAND PUNCHED CARDS

FUNDING:
NATIONAL MARINE FISHERIES SERVICE, SEA GRANT, U.S. PUBLIC HEALTH SERVICE

INVENTORY:

PUBLICATIONS:
LYNCH, M.P., K.L. WEBB, W.A. VAN ENGLE 1973. COMP. BIOCHEM. PHYSIOL 44A: 719-734; LYNCH, M.P. AND K.L. WEBB. 1973. COMP. BIOCHEM. PHYSIOL. 44A. 1237-1249; LYNCH, M.P. AND K.L. WEBB. 1973. COMP. BIOCHEM. PHYSIOL. 45A:127-139; COLVOCORESSES, J., M.P. LYNCH, K.L. WEBB 1974. COMP. BIOCHEM. PHYSIOL. 49A:787-803; COLVOCORESSES, J. AND M.P. LYNCH 1974. COMP. BIOCHEM. PHYSIOL. 50A:135-139.

CONTACT:
MAURICE P. LYNCH, PHD 804 642 2111 X71
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	39	STATIONS			
TIME	EARTH	STATION TIME	YMD	100	OBS			SOME STATIONS SAMPLED MONTHLY OTHERS ONLY DURING SUMMER, OTHERS ONCE
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	100	OBS		SURFACE	
TEMPERATURE	WATER	NON-REVERSING	DEG C	100	OBS		SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CHLORIDE IN BIO MATERIAL	WATER	THERMOMETER TITRATION	MILLI-EQUIVALENTS PER LITER	1400 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
GLUCOSE IN BIO MATERIAL	WATER	COLORIMETRY	MG PER 100 ML	1200 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
PROTEIN IN BIO MATERIAL	WATER	COLORIMETRY	MG PER ML	1400 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
AMINO ACIDS IN BIO MATERIAL	WATER	COLORIMETRY	MICROMOLES PER ML	30 OBS			FREE AMINO ACIDS IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
NINHYDRIN PLUS SUBSTANCES IN BIO MATERIAL	WATER	COLORIMETRY	MICROMOLES PER ML	800 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
SODIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
POTASSIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
CALCIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
MAGNESIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	800 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
LIPIDS IN BIO MATERIAL	WATER	COLORIMETRY	PARTS PER MILLION	500 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	900 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	900 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES SAPIDUS
OSMOTIC CONCENTRATION OF BIO	WATER	FREEZING POINT DEPRESSION	MILLIOSMOLES	1000 OBS			IN BLOOD SERUM OF BLUE CRAB, CALLINECTES

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL							SAPIDUS

PESTICIDE DATA
DATA COLLECTED: JANUARY 1965 TO DECEMBER 1972

RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, YORK, RAPPAHANNOCK, JAMES, ELIZABETH RIVERS, LYNNHAVEN BAY

ABSTRACT:
RESULTS OF PESTICIDE ANALYSES PERFORMED BY THE VIRGINIA INSTITUTE OF MARINE SCIENCE AND THE VIRGINIA STATE WATER CONTROL BOARD ON OYSTERS OBTAINED FROM THE LOWER CHESAPEAKE BAY AND TRIBUTARIES ARE ON FILE AT THE BUREAU OF SHELLFISH SANITATION (ANALYSES WERE PERFORMED BY THE VIRGINIA INSTITUTE OF MARINE SCIENCE AND THE VA. STATE WATER CONTROL BOARD)

DATA AVAILABILITY:
GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
25 DATA SHEETS

FUNDING:
STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

GRID LOCATOR (LAT):
730776 730766 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS			
TIME	EARTH	STATION TIME	YMD	680	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971-1972		1 OBS PER STATION
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	680	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971-1972		WET WEIGHT IN OYSTER FLESH
DDD IN BIO	WATER	GAS CHROMATOGRAPH	PPM	680	OBS	MONTHLY UNTIL		WET WEIGHT IN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		Y				1970, QUARTERLY FROM 1971-1972		OYSTER FLESH
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	680	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971-1972		WET WEIGHT IN OYSTER FLESH
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	580	OBS	MONTHLY UNTIL 1970, QUARTERLY FROM 1971-1972		WET WEIGHT IN OYSTER FLESH

HEAVY METALS MONITORING PROGRAM

DATA COLLECTED: JUNE 1974 TO PRESENT

RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, JAMES, YORK, POTOMAC, ELIZABETH RIVERS, WILLOBY BAY

ABSTRACT:
SAMPLES OF OYSTERS ARE OBTAINED FROM FORTY STATIONS IN THE LOWER CHESAPEAKE BAY AND ITS TRIBUTARIES AND ANALYSED FOR CU, CD, ZN, HG AT SIX MONTH INTERVALS. THE PROGRAM ATTEMPTS TO MONITOR SHELLFISH CONTAMINATION IN VIRGINIA WATERS BY HEAVY METALS

DATA AVAILABILITY:
GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
100 DATA SHEETS PER YEAR

FUNDING:
VA DEPARTMENT OF HEALTH

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

GRID LOCATOR (LAT):
730766 730776 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	40	STATIONS			
TIME	EARTH	STATION TIME	YMD	160	OBS	TWICE A YEAR		
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160	OBS	TWICE A YEAR		3 OBS PER STATION FROM A MIXTURE CF 10 OYSTERS; WET WEIGHT IN OYSTER TISSUE
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160	OBS	TWICE A YEAR		3 OBS PER STATION FROM A MIXTURE OF 10 OYSTERS; WET WEIGHT IN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	160 OBS	TWICE A YEAR		OYSTER TISSUE 3 OBS PER STATION FROM A MIXTURE OF 10 OYSTERS; WET WEIGHT IN
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	36 OBS	TWICE A YEAR		OYSTER TISSUE SAMPLES FROM ONLY 9 STATIONS

PESTICIDE MONITORING PROGRAM
DATA COLLECTED: SEPTEMBER 1974 TO PRESENT

RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, VA TIDAL RIVERS AND BAYS

ABSTRACT:
OYSTERS OBTAINED AT SIX MONTH INTERVALS FROM STATIONS LOCATED IN TIDAL TRIBUTARIES AND BAYS OF VIRGINIA ARE ANALYSED FOR DDT, DDD, DDE, DIELDRIN, PCB. THE DATA IS USED TO MONITOR SHELLFISH CONTAMINATION BY THE CHEMICALS.

DATA AVAILABILITY:
GENERALLY AVAILABLE TO ANY CITIZEN OR AGENCY IN THE COMMONWEALTH UPON DECISION OF THE DIRECTOR

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
20 DATA SHEETS PER YEAR

FUNDING:
STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804 770 7937
BUREAU OF SHELLFISH SANITATION
JAMES MADISON BLDG., 109 GOVERNOR STREET
RICHMOND VIRGINIA USA 23219

095

GRID LOCATOR (LAT):
730776 730766 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	18	STATIONS			
TIME	EARTH	STATION TIME	YMD	36	OBS	TWO SAMPLINGS PER YEAR		
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	36	OBS	TWO SAMPLINGS PER YEAR		14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	36 OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	36 OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	36 OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION; 4 STATIONS EACH SAMPLED BY ONE
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	36 OBS	TWO SAMPLINGS PER YEAR		ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION 14 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 30 OYSTERS FROM EACH STATION;

096

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							4 STATIONS EACH SAMPLED BY ONE ANALYSIS OF A MIXTURE OF 10 OYSTERS FROM EACH STATION

DATA COLLECTED: JANUARY 1971 TO JANUARY 1971
RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
FINFISH, BLUE CRAB, SHRIMP, OYSTERS, MUD CRABS, MUSSELS WERE OBTAINED FROM LOCATIONS IN THE DELAWARE RIVER, NEAR THE E.I. DUPONT CHAMBERS WORKS, AND WERE ANALYSED FOR HEAVY METALS. THE RESULTS ARE PRESENTED IN A REPORT WHICH IS AVAILABLE FROM E.I. DUPONT DENEMOURS AND COMPANY
(CONTRACT WORK DONE FOR E.I. DUPONT DENEMOURS AND COMPANY)

DATA AVAILABILITY:
REPORT AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 50 PAGE REPORT

FUNDING:
E.I. DUPONT DENEMOURS AND COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730795

098

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMD	10	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	130	OBS			FISH COLLECTED USING SEMI-BALLOON TRAWL; 10 SPECIMENS OF 4 DOMINANT SPECIES AT EACH STATION ANALYSED FOR CONCENTRATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								IN GUT AND FLESH TISSUE
MERCURY IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	100	OBS			CONCENTRATIONS DETERMINED IN FLESH OF BLUE CRABS, SHRIMP, OYSTERS, MUD CRABS, MUSSELS TAKEN AT EACH STATION
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
COPPER IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
CHROMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
CHROMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
LEAD IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	20	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ZINC IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS
ALUMINUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF VARIOUS SPECIES OF FINFISH TAKEN AT EACH STATION
ALUMINUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	UG PER G	40	OBS			CONCENTRATIONS IN FLESH OF SHRIMP, OYSTERS, MUSSELS

DATA COLLECTED: AUGUST 1971 TO AUGUST 1972 RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
TRACE METAL CONDITIONS OF THE BOTTOM SEDIMENTS IN THE DELAWARE BAY NEAR EXISTING OYSTER BANKS WERE INVESTIGATED IN ORDER TO LOCATE AREAS SUITABLE FOR THE LOCATION OF CULTURED OYSTER BANKS.
(UNPUBLISHED M.S. THESIS OF FREDERICK BOPP III, JUNE 1973)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 135 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 302 738 2455
MORRIS LIBRARY
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795 730794 730785 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	119	STATIONS			
TIME	EARTH	STATION TIME	YMD	119	OBS			
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT	119	OBS			SAND, SILT, OR CLAY
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119	OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119 OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119 OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119 OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	119 OBS			GREATER THAN 63U FRACTION OF SEDIMENT ONLY

CHEMICAL, BACTERIOLOGICAL AND PHYSICAL STUDY ON THE CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS, MARYLAND

DATA COLLECTED: JANUARY 1969 TO PRESENT

RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE PROPOSED NUCLEAR GENERATING STATION AT CALVERT CLIFFS, MARYLAND ARE ANALYSED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY IN THE FORM OF YEARLY CONTRACT REPORTS BY THE PHILA. ACADEMY. (CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
YEARLY REPORTS EACH APPROXIMATELY 100 PAGES

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	5	STATIONS			LOCATED ALONG 30 FT DEPTH CONTOUR NEAR SHORE
TIME	EARTH	STATION TIME	YMD	350	OBS	MONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	700	OBS	MONTHLY	SURFACE AND BOTTOM	
CHLORIDE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	700	OBS	MONTHLY	SURFACE AND BOTTOM	BECKMAN ZEROMATIC METER
SALINITY	WATER	CONDUCTIVITY	PPT	700	OBS	MONTHLY	SURFACE AND BOTTOM	
SILICATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
SULFATE	WATER	GRAVIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
ORTHOPHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
PHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
NITRATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
NITRITE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
AMMONIA	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
HARDNESS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	TOTAL, CALCIUM, MAGNESIUM
PHENOLPHTHALEIN ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
TOTAL ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	METHYL PURPLE INDICATOR
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
LIGHT ATTENUATIO N	WATER	SPECTROPHOTOMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
CALCIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM CA HARDNESS VALUES
MAGNESIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM MG HARDNESS VALUES
CARBONATE ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM PHENOLPHTHALEIN ALKALINITY
BICARBONATE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND	CALCULATED FROM

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ALKALINITY						BOTTOM	METHYL PURPLE ALKALINITY
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER PER 100 ML	350 OBS	MONTHLY	SURFACE	TOTAL COLIFORM AND PRESUMPTIVE COLIFORM
IRON	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
MANGANESE	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
SODIUM	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
POTASSIUM	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
STRONTIUM	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COBALT	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COPPER	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
NICKEL	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
LEAD	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
ZINC	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CALCIUM	WATER	SPECTROPHOTOMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CADMIUM	WATER	COLORIMETRY	PPM	350 OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
BORON	WATER	COLORIMETRY	PPM	350 OBS	MONTHLY	SURFACE	

GOLD AND MERCURY IN OYSTERS BY NEUTRON ACTIVATION
DATA COLLECTED: APRIL 1970 TO APRIL 1970

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, PATAPSCO RIVER, COASTAL

ABSTRACT:
ANALYSIS OF OYSTER MEATS FROM PATAPSCO RIVER, MARYLAND FOR GOLD AND MERCURY BY NEUTRON ACTIVATION ANALYSIS. SINGLE STATION SOURCE OF OYSTERS. PROGRAM INTENT WAS TO PROVIDE BASELINE DATA AND EVALUATE ANALYTIC TECHNIQUE. DATA FILE INCLUDES ENERGY SPECTRA FOR EACH SAMPLE.
(MS THESIS, R. T. MOHR, 1971)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
97 PAGES

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	1	STATIONS			
TIME	EARTH	STATION TIME	YMD	1	STATIONS			
GOLD IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PPM DRY WEIGHT	14	OBS			OYSTER MEAT
MERCURY IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PPB DRY WEIGHT	14	OBS			OYSTER MEAT

DETERMINATION OF CADMIUM IN OYSTERS
DATA COLLECTED: JUNE 1968 TO OCTOBER 1970

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL

ABSTRACT:
SAMPLES OF OYSTERS TAKEN FROM 4 SITES IN MARYLAND WATERS ANALYZED FOR CADMIUM. INTENT OF STUDY WAS TO PROVIDE BASELINE DATA AND EVALUATE TECHNIQUE FOR ANALYSIS.
(MS THESIS BY P.H. GRAHAM, 1971, DEPARTMENT OF CIVIL ENGINEERING)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
45 PAGES

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	4	STATIONS			
TIME	EARTH	STATION TIME	YMD	4	STATIONS			
CADMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM WET WEIGHT	16	OBS			OYSTERS ANALYZED
WEIGHT OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	GM	16	OBS			OYSTERS, MEAT ONLY

CHESAPEAKE BAY OYSTER TRAY STUDIES
DATA COLLECTED: MAY 1970 TO JUNE 1973

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
AT THE REQUEST OF THE BALTIMORE GAS AND ELECTRIC COMPANY A PROGRAM OF STUDIES WAS INITIATED IN 1970 TO DETERMINE THE GROWTH, MORTALITY AND FOULING ASSOCIATED WITH OYSTERS AT VARIOUS LOCATIONS IN THE CALVERT CLIFFS AREA OF CHESAPEAKE BAY. RESULTS ARE AVAILABLE IN ANNUAL REPORTS TO THE BALTIMORE GAS AND ELECTRIC COMPANY.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
FOUR YEARLY REPORTS APPROXIMATELY 25 PAGES EACH

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	3	STATIONS			
TIME	EARTH	STATION TIME	YMD	36	OBS	QUARTERLY		6 OYSTER TRAYS CONTAINING 40 OYSTERS PER TRAY ARE LOCATED AT EACH STATION AND ARE REMOVED AND EXAMINED 4 TIMES PER YEAR

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MORPHOMETRIC MEASURE OF BENTHIC ANIMALS	BOTTOM	DIRECT	MM	36	OBS	QUARTERLY		LENGTH AND WIDTH OF ALL LIVING OYSTERS ON TRAYS
COUNT OF PERIPHYTON	WATER	VISUAL	NUMBER PER SPECIES	36	OBS	QUARTERLY		ORGANISMS ADHERING TO OYSTER TRAYS; ORGANISMS INSIDE TRAYS WITH OYSTERS
COUNT OF PERIPHYTON ON BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES	36	OBS	QUARTERLY		ORGANISMS ADHERING TO OYSTERS
MORTALITY OF BENTHIC ANIMALS	BOTTOM	VISUAL	PERCENT	36	OBS	QUARTERLY		OYSTERS IN TRAYS
BIOLOGICAL CONDITION OF BENTHIC ANIMALS	BOTTOM	VISUAL	SCALE	36	OBS	QUARTERLY		VISUAL OPACITY OF OYSTER MEAT DUE TO GLYCOGEN CONTENT IS BASED ON A SCALE OF 1 TO 10

OSPREY REPRODUCTION AND POLLUTION IN THE CHESAPEAKE BAY
DATA COLLECTED: JANUARY 1969 TO DECEMBER 1972

RECEIVED: JANUARY 06, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:
CONTINUING STUDY TO DETERMINE THE FACTORS AFFECTING THE OSPREY REPRODUCTIVE SUCCESS. EGGS FROM CLUTCHES WERE ANALYZED FOR ORGANOCHLORINE PESTICIDES, PCB, LEAD, CADMIUM AND MERCURY.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
100 PAGES

FUNDING:
US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:
SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT. 1972. P. 60-61

CONTACT:
R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20810

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	16	STATIONS			
SPECIES DETERMINATION OF BIRDS	AIR	KEY		16	STATIONS			OSPREY TISSUE AND EGGS
COUNT OF BIRDS	AIR	VISUAL		16	STATIONS			OSPREY
FECUNDITY OF BIRDS	AIR	VISUAL	OSPREY EGGS AND PERCENT HATCHLINGS	16	STATIONS			OSPREY
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	16	STATIONS			OSPREY TISSUE AND EGGS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	16 STATIONS			OSPREY TISSUE AND EGGS

OSPREY REPRODUCTION IN RELATION TO PESTICIDE RESIDUES IN EGGS
DATA COLLECTED: JANUARY 1968 TO DECEMBER 1969

RECEIVED: JANUARY 06, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., CONNECTICUT AND MARYLAND

ABSTRACT:
OSPREY TISSUES, EGGS AND FISH FROM MARYLAND AND CONNECTICUT WERE ANALYZED FOR ORGANOCHLORINE PESTICIDES AND PCB.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
100 PAGES

FUNDING:
US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:
SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT, 1972. P. 60.

CONTACT:
R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20610

GRID LOCATOR (LAT):
730786 740702

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	2	STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	2	STATIONS			
SPECIES DETERMINATION OF BIRDS	AIR	KEY		2	STATIONS			OSPREY AND OSPREY EGGS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	2	STATIONS			OSPREY, FISH TISSUES, AND OSPREY EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	2	STATIONS			OSPREY, FISH TISSUES, AND OSPREY EGGS
DDT IN BIO	WATER	GAS CHROMATOGRAPH	PPM	2	STATIONS			OSPREY, FISH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		Y					TISSUES, AND OSPREY EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2 STATIONS			OSPREY, FISH TISSUES, AND OSPREY EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPH Y	PPM	2 STATIONS			OSPREY, FISH TISSUES, AND OSPREY EGGS
MORPHOMETRIC MEASUREMENT OF BIRDS	AIR	VISUAL	MICRONS	2 STATIONS			EGG SHELL THICKNESS

002778 EFFECTS OF PESTICIDES AND ENVIRONMENTAL POLLUTANTS ON RAILS AND SHOREBIRDS

DATA COLLECTED: JANUARY 1972 TO DECEMBER 1973

RECEIVED: JANUARY 06, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., NEW JERSEY TO SOUTH CAROLINA

ABSTRACT:
THE EGGS OF CLAPPER RAIL, WILLET, AND AMERICAN OYSTER CATCHER WERE COLLECTED FROM NEW JERSEY TO SOUTH CAROLINA AND MEASURED FOR THICKNESS AS WELL AS ORGANOCHLORINES AND PCB. 3500 EGGS WERE MEASURED AND 30 EGGS ANALYZED FOR ORGANOCHLORINE PESTICIDES AND PCB.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
4000 PAGES

FUNDING:
US BUREAU OF SPORT FISHERIES AND WILDLIFE

INVENTORY:

PUBLICATIONS:
SUMMARY IN: PATUXENT WILDLIFE RESEARCH CENTER ANNUAL REPORT. 1972. P. 78-79.

CONTACT:
R. I. SMITH, DIRECTOR 301 776 4880
PATUXENT WILDLIFE RESEARCH CENTER
MIGRATORY BIRD AND HABITAT RESEARCH LABORATORY
LAUREL MARYLAND USA 20810

GRID LOCATOR (LAT):
730820 730829 730738 730739 730746 730747 730748 730749 730755 730756 730765 730766 730775 730776 730785 730786 730795 730796 740705 740706

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	15	STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	15	STATIONS			
SPECIES DETERMINATION OF BIRDS	AIR	KEY		3500	OBS			3500 RAIL AND SHOREBIRD EGGS WERE MEASURED FOR THICKNESS
MORPHOMETRIC MEASUREMENT OF BIRDS	AIR	VISUAL	MICRONS	3500	OBS			3500 RAIL AND SHOREBIRD EGGS WERE MEASURED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								FOR THICKNESS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS
POLYCHLORINATED BIPHENYLS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PPM	30	OBS			30 RAIL AND SHOREBIRD EGGS

003172

ROLE OF SEWAGE EFFLUENT AND HEAVY METALS INTO MARINE ECOSYSTEMS
DATA COLLECTED: JANUARY 1972 TO AUGUST 1976

RECEIVED: FEBRUARY 07, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA, CALICO CREEK

ABSTRACT:
SURVEY OF THE EFFECTS OF SEWAGE EFFLUENTS AND HEAVY METALS ON AGRICULTURAL AND MARINE ECOSYSTEMS OF NORTH CAROLINA (INTENSIVE SURVEY OF 15 STATIONS ON CALICO CREEK AND STATIONS IN 20 OTHER COASTAL CITIES.)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
200 PAGES

FUNDING:
UNIVERSITY OF NORTH CAROLINA; NORTH CAROLINA OFFICE OF WATER RESOURCES RESEARCH PROGRAM

INVENTORY:

PUBLICATIONS:

CONTACT:
RICHARD BARBER 919 728 2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT NORTH CAROLINA USA 28516

GRID LOCATOR (LAT):
730748 730747 730746 730756 730755 730765

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	35	STATIONS			LATITUDE & LONGITUDE
TIME	EARTH	STATION TIME	YMD	35	STATIONS	BIANNUAL		
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
SELENIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35	STATIONS	BIANNUAL		OUTFALL PIPE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
SELENIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OUTFALL PIPE
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
SELENIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
COPPER IN BIO	WATER	ATOMIC ABSORPTION	PPB	35 STATIONS	BIANNUAL		OYSTERS,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
MATERIAL		SPECTROMETRY					LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
CHROMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
NICKEL IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	35 STATIONS	BIANNUAL		OYSTERS, LITTERINA, NASSERIA, SPARTINA, ULVA, UCA, MULLET, PENEAUS
PRECIPITATION AMOUNT	AIR	RAIN GAGE	INCHES	35 STATIONS	BIANNUAL		
WATER TRANSPORT	WATER	FLOW METER		35 STATIONS	BIANNUAL		
PARTICULATE MATTER	WATER	GRAVIMETRY		35 STATIONS	BIANNUAL		

003173 HEAVY METALS IN COASTAL FISHES OF NORTH CAROLINA — PAGE 01

DATA COLLECTED: JANUARY 1972 TO PRESENT — RECEIVED: FEBRUARY 07, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:
HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES

DATA AVAILABILITY:
NO RESTRICTIONS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
900 PAGES

FUNDING:
NSFI AND DUKE U.

INVENTORY:

PUBLICATIONS:

CONTACT:
RICHARD BARBER 919 728 2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT NORTH CAROLINA USA 28516

GRID LOCATOR (LAT):
730766 730765 730755 730756 730746 730747 730748

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1 STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMD	1 STATIONS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		1 STATIONS			50 BLUEFISH, 100 SPINY DOGFISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES
LENGTH OF	WATER	STANDARD LENGTH	MM	1 STATIONS			50 BLUEFISH,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PELAGIC FISH							100 SPINY DOGFISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS	1 STATIONS			50 BLUEFISH, 100 SPINY DOGFISH, 100 FALSE ALBACORE, 100 NOLOMOLA, 100 CONGERS, 100 AMBERJACK, 100 KING MACKEREL, 200 LAGODON RHOMBOIDES
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPT	1 STATIONS			AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE
MANGANESE IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPT	1 STATIONS			AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPT	1 STATIONS			AXAL AND LATERAL MUSCLE, LIVER, KIDNEY, BRAIN TISSUE

TRACE METAL BASELINE STUDIES ON THE MURDERKILL AND ST. JONES RIVERS, DELAWARE COASTAL PLAIN

DATA COLLECTED: MAY 1971 TO SEPTEMBER 1972

RECEIVED: OCTOBER 11, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY, MURDERKILL AND ST. JONES RIVERS

ABSTRACT:
THE PRINCIPAL PURPOSE OF THIS STUDY TO ESTABLISH A TRACE METAL BASELINE FOR THE MURDERKILL RIVER PRIOR TO COMMENCEMENT OF OPERATION OF THE KENT COUNTY REGIONAL SEWAGE TREATMENT PLANT. BASELINES ARE ESTABLISHED FOR IRON, MAGNESIUM, ZINC, CHROMIUM, COPPER, LEAD, CADMIUM, MERCURY, NICKEL AND STRONTIUM. IN ADDITION TO THE ESTABLISHMENT OF THESE BASELINES, THE SECOND PURPOSE OF THIS STUDY IS TO CONTRAST THE MURDERKILL RIVER BASELINE WITH A SIMILARLY ESTABLISHED BASELINE FOR THE ST. JONES RIVER, WHICH HAS BEEN THE RECIPIENT OF DOMESTIC SEWAGE AND INDUSTRIAL AND OTHER ORGANIC WASTES FOR A NUMBER OF YEARS. BY COMPARING THE RESULTS OF THESE TWO RIVER SYSTEM'S BASELINES, IT IS HOPED THAT SOME PROJECTION MAY BE MADE OF THOSE METALS. SAMPLES WERE TAKEN AT 56 STATIONS, APPROXIMATELY EVERY HALF-TO THREE-QUARTERS OF A MILE FROM THE MOUTH OF THE RIVERS TO ABOVE THE LIMIT OF SALT INTRUSION.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
THE DATA OCCURS IN A TECHNICAL REPORT WHICH IS 31 PAGES IN LENGTH. THERE ARE 3 TABLES AND 10 GRAPHS IN THE REPORT.

FUNDING:
NOAA, OFFICE OF SEA GRANT, NO. 2-35223

INVENTORY:

121

PUBLICATIONS:
BOPP, F., III, LEPPLE, F. K., AND BIGGS, R. B., 1972, TRACE METAL BASELINE STUDIES ON THE MURDERKILL AND ST. JONES RIVERS, DELAWARE COASTAL PLAIN, COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE, DEL-SG-10-72, 31 PGS.

CONTACT:
DR. ROBERT B. BIGGS 302 738 2842
DEPARTMENT OF GEOLOGY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	56 STATIONS			
TIME	EARTH	STATION TIME		56 STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56 STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	56	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY

ABSTRACT:
THE PRIMARY OBJECTIVE WAS TO TYPIFY THE TRACE METAL GEOCHEMICAL ASPECTS OF THE SEDIMENTARY ENVIRONMENTS WHICH SUPPORT OYSTERS IN DELAWARE BAY. THESE RESULTS PROVIDE BASELINE INFORMATION TO BE USED IN THE OYSTER EARLY-WARNING POLLUTION MONITORING SYSTEM BEING DEVELOPED BY THE STATE OF DELAWARE AND THE UNIVERSITY OF DELAWARE. IN ADDITION, A FURTHER OBJECTIVE IS TO CHARACTERIZE THE TRACE METALS DETERMINED WITH RESPECT TO THEIR GENERALIZED SOURCE, AND THE PRIMARY FACTORS CONTROLLING THEIR DISTRIBUTION. SAMPLES WERE COLLECTED FROM 118 DISCRETE LOCATIONS IN DELAWARE BAY. BASELINES ARE ESTABLISHED FOR IRON, MAGNESIUM, ZINC, CHROMIUM, COPPER, LEAD, CADMIUM, MERCURY, NICKEL, AND STRONTIUM.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
THE DATA OCCURS IN A TECHNICAL REPORT 47 PAGES IN LENGTH.

FUNDING:
NOAA, OFFICE OF SEA GRANT

INVENTORY:

PUBLICATIONS:
BOPP, F., III, 1972, TRACE METAL ENVIRONMENTS NEAR SHELL BANKS IN DELAWARE BAY, COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE. DEL-SG-9-72, 47 PGS.

CONTACT:
DR. ROBERT B. BIGGS 302 738 2842
DEPARTMENT OF GEOLOGY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	118 STATIONS			
TIME	EARTH	STATION TIME		118 STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118 STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118 STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								CLAY FRACTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPB	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION
STRONTIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	118	STATIONS			HYDROCHLORIC ACID EXTRACTION FROM SILT AND CLAY FRACTION

003292

A REPORT ON THE COOPERATIVE BLUE CRAB STUDY-SOUTH ATLANTIC STATES

DATA COLLECTED: MARCH 1969 TO DECEMBER 1969

RECEIVED: MARCH 13, 1975

PROJECTS:
COOPERATIVE BLUE CRAB STUDY-SOUTH ATLANTIC STATES

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA TO FLORIDA, COASTAL

ABSTRACT:
A STUDY TO DETERMINE CAUSES OF BLUE CRAB MORTALITIES IN THE SOUTH ATLANTIC STATES. HYDROLOGICAL CHARACTERISTICS, DISEASES, PARASITES, AND RESIDUAL PESTICIDES ARE FACTORS CONSIDERED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 32 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT K. MAHOOD 912 265 1550
GEORGIA GAME AND FISH COMMISSION
COASTAL FISHERIES DIVISION
BRUNSWICK GEORGIA USA 31520

GRID LOCATOR (LAT):
720759 720769 720779 720789 720850 720860 720870 720880 720890 720891 730729 730737 730738 730739 730745 730746 730747 730755
730765 730800 730801 730810 730811 730820

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	20	STATIONS			
TIME	EARTH	STATION TIME	YMD	20	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	20	OBS	MONTHLY	BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	20	OBS	MONTHLY	BOTTOM	WINKLER
PH	WATER	PH METER		20	OBS	MONTHLY		
SALINITY	WATER	INDEX OF REFRACTION	PARTS PER THOUSAND	20	OBS	MONTHLY		
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	CENTIMETERS	20	OBS	MONTHLY		
CHLORINATED HYDROCARBONS	WATER	GAS CHROMATOGRAPH Y	PARTS PER MILLION	20	OBS	MONTHLY		ALDRIN, LINDANE,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
IN BIO MATERIAL								DIELDRIN, DDT, DDE, DDD, ENDRIN, HEPTACHLOR EPOXIDE, METHOXYCHLOR, MIREX, TOXAPHENE, CHLORDANE WERE ANALYZED IN TISSUES OF BLUE CRABS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		20	OBS	MONTHLY		BLUE CRABS CAPTURED FOR PESTICIDE, DISEASE, PARASITE, AND LABORATORY ANALYSIS
SPECIES DETERMINATION OF PARASITES	WATER	KEY		20	OBS	MONTHLY		FOUND ON BLUE CRABS
COUNT OF PARASITES	WATER	VISUAL		20	OBS	MONTHLY		FOUND ON BLUE CRABS

HEAVY METAL SURVEY OF SEAFISH FROM NORTH CAROLINA COASTAL WATERS

DATA COLLECTED: JANUARY 1972 TO OCTOBER 1972

RECEIVED: MARCH 24, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:
MONITORING OF COMMERCIAL AND GAME FISH FOR MERCURY, LEAD, CADNIUM AND ARSENIC.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
120 PAGES

FUNDING:
NC DOA

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. W.Y. COBB, DIRECTOR 919 829 7366
FOOD AND DRUG PROTECTION DIVISION. NORTH CAROLINA DEPARTMENT OF AGRICULTURE.
P.O. BOX 27647
RALEIGH NORTH CAROLINA USA 27611

GRID LOCATOR (LAT):
730766 730756 730746 730747 730737 730738 730755

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	10	STATIONS			
TIME	EARTH	SAMPLING TIME	YMD	10	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
LEAD IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			
ARSENIC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	10	OBS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, DELAWARE, NORTH CAROLINA

ABSTRACT:
THIS STUDY INCLUDES DATA TAKEN AT 14 OCEANOGRAPHIC STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY SE FROM DELAWARE BAY, CAPE HENLOPEN TO THE SARGASSO SEA JUST BEYOND THE GULF STREAM AND THEN NW FROM THE SARGASSO SEA TO A POINT CLOSE TO THE MOUTH OF THE CHESAPEAKE BAY AND INTO BEAUFORT NORTH CAROLINA. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, NITRATE, NITRITE, PHOSPHATE, SILICATE, CHLOROPHYLL A, PHAEOPHYTIN, CS-137, RADIUM-228, RADIUM-226, THORIUM-228, LEAD-210, POLONIUN-210, PARTICULATE AND DISSOLVED MERCURY AS WELL AS REGULAR WIND, WAVE AND METEOROLOGICAL OBSERVATIONS.
(CRUISE BEGAN AT LEWES DELAWARE PROCEEDED OUT TO THE SARGASSO SEA TERMINATING AT BEAUFORT NORTH CAROLINA)

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
16 PAGES

FUNDING:
NATIONAL SCIENCE FOUNDATION NO. GA-28752

INVENTORY:

PUBLICATIONS:

CONTACT:
STUART KUPFERMAN 302 738 1212
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078530 73076543

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	14	STATIONS		SURFACE TO 980M	
TIME	EARTH	SAMPLING TIME	YMDHM	14	OBS	1 OBS/STATION/ DEPTH		
TEMPERATURE	WATER	VARIOUS	DEG C	1500	OBS	2-3 OBS/ STATION/ DEPTH	SURFACE TO 980M	CONTINUOUS SURFACE TEMPERATURE TAKEN BY THERMISTOR AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							BUCKET AT EACH STATION 2 OR 3 DIFFERENT METHODS EMPLOYED. SURFACE TEMPERATURE BY BUCKET, STD, XBT DEPTH BY NANSEN/NISKIN REVERSING THERMOMETER, STD, BT
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500 OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 980M	SALINITY WAS CROSSED CHECK ON STATION STD AGAINST INDUCTIVE SALINOMETER WHILE UNDERWAY ONLY INDUCTIVE SALINOMETER USED
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	CONTINUOUS CHLOROPHYLL ALSO WAS TAKEN TO CORRELATE WITH STATION DATA
PHAEOPHYTIN A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84 OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84 OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	SUSPENDED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84 OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	DISSOLVED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84 OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	85 OBS	1 OBS/DEPTH/ STATION	10-980 M	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	10-980 M	
RADIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
LEAD-210	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
THORIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
WIND SPEED	AIR	ANEMOMETER	NAUTICAL MILES PER HOUR	250 OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250 OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WAVE AMPLITUDE	WATER	VISUAL	FEET	250 OBS	1 OBS/HALF HOUR	SURFACE	DATA TAKEN FROM SHIP MAST
WAVE PERIOD	WATER	VISUAL	WAVE PER MINUTE	250 OBS	1 OBS/HALF HOUR	SURFACE	MEASURED AS WAVES ACROSS BOW PER MINUTE

FACTORS AFFECTING ACCUMULATION, TISSUE DISTRIBUTION, AND ELIMINATION OF MERCURY
IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINIA (GMELIN)
DATA COLLECTED: JUNE 1971 TO OCTOBER 1973

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, MISPILLION RIVER, COASTAL

ABSTRACT:
OYSTERS, CRASSOSTREA VIRGINICA WERE EXPOSED FOR 3 DAYS TO 203HGCL2 OR CH3 203HGCL ADDED DIRECTLY TO ARTIFICIAL SEA WATER OR ADDED PRECONCENTRATED ON THE MARINE DIATOM, PHAEODACTYLUM TRICORNUTUM. THE CONCENTRATION OF 203HG IN FIVE TISSUES WAS MEASURED FOR 45 DAYS AFTER MERCURY WAS REMOVED FROM THE AMBIENT WATER. TO STUDY THE KINETICS OF MERCURY UPTAKE IN OYSTERS, ADULT CRASSOTREA VIRGINICA (GMELIN) WERE HELD IN SEA WATER CONTAINING EITHER 10PPB OR 100PPB MERCURY FOR 45 DAYS. MERCURY CONCENTRATIONS IN TISSUES WERE DETERMINED BY ANALYSIS OF INDIVIDUALLY HOMOGENIZED OYSTER MEATS USING WET DIGESTION AND FLAMELESS ABSORPTION SPECTROPHOTOMETRY.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 147 PAGE THESIS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. PHD. DISSERTATION, 1974, BY PATRICIA ANN CUNNINGHAM

CONTACT:
LIBRARIAN 302 645 667
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
7307855270

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MIN	1	STATIONS			
TIME	EARTH	STATION TIME	YM	70	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPB	350	OBS			MERCURY MEASURED IN TISSUES OF OYSTERS AND IN HOMOGINIZED OYSTERS AND FROM THIS DATA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							THE UPTAKE, DISTRIBUTION IN TISSUES AND DEPURATION OF MERCURY IN CRASSOSTREA VIRGINICA WAS CALCULATED

A THREE YEAR SURVEY OF THE PESTICIDE CONTENT OF SHELLFISH IN DELAWARE'S TIDAL WATERS

DATA COLLECTED: OCTOBER 1966 TO AUGUST 1969

RECEIVED: SEPTEMBER 22, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE, INDIAN RIVER AND REHOBOTH BAYS AND LEIPSIC, SIMONS, MISPILLION AND BROADKILL RIVERS AND BOWER'S BEACH

ABSTRACT:
DATA ON THE LEVELS OF DDD, DDE, DDT AND DIELDRIN IN THE GENERAL TISSUES OF THREE SHELLFISH, CRASSOSTREA VIRGINICA, MODIOLUS DEMISSUS AND MERCENARIA MERCENARIA, COLLECTED FROM OCTOBER 1966 THROUGH AUGUST 1969 FROM VARIOUS COASTAL WATERS ADJACENT TO THE STATE OF DELAWARE ARE PRESENTED IN REPORT FORM.
(ANALYSES CONDUCTED AT BUREAU OF COMMERCIAL FISHERIES BIOLOGICAL LABORATORY-GULF BREEZE, FLORIDA)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
52 PAGES

FUNDING:
UNITED STATES DEPARTMENT OF INTERIOR FISH AND WILDLIFE SURFACE, BUREAU OF COMMERCIAL FISHERIES

INVENTORY:

PUBLICATIONS:

CONTACT:
LAWRENCE CURTIS 302 738 2794
MARINE LABORATORIES, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307853097 7307853150 7307854015 7307854075 7307854184 7307855168 7307950233 7307951234 7307951244

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	9	STATIONS			3 STATIONS FOR CRASSOSTREA VIRGINIA, 3 STATIONS FOR MERCENARIA, 3 STATIONS FOR MODIOLUS DEMISSUS
TIME	EARTH	STATION TIME	YMD	282	OBS	1 OBS PER STATION PER MONTH		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER MILLION PER SHELLFISH SPECIES TISSUE SAMPLE PER OBS PER STATION	282	OBS	1 OBS PER STATION PER MONTH		

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, NORTH CAROLINA, DELAWARE

ABSTRACT:
THIS CRUISE REPORT INCLUDES OCEANOGRAPHIC DATA TAKEN AT 40 STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY NE FROM BEAUFORT, NORTH CAROLINA ACROSS THE GULF STREAM, NW TO THE MOUTH OF THE CHESEPEAKE BAY, NE OUT TO THE GULF STREAM, AND NW INTO CAPE HENLOPEN, AT THE MOUTH OF DELAWARE BAY. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, DISSOLVED OXYGEN, DISSOLVED ORGANIC CARBON, PARTICULATE ORGANIC CARBON, NITRATE, NITRITE, TOTAL REACTIVE PHOSPHATE, TOTAL SILICATE, CHLOROPHYLL A, CARBON-14, PHAEOPHYTON PIGMENT, PARTICULATE CHITIN, CHITINOCLYTIC BACTERIA, AND PARTICULATE LIGHT SCATTERING INFORMATION. IN ADDITION FOR WATER MASS TRACING, SURFACE AND PROFILE CS-137 AND RADIUM-228 USED BULK WATER SAMPLE TECHNIQUES AND SPECIAL CAST SAMPLER TECHNIQUE(CS-137). REGULAR WIND, WAVE, AND METEOROLOGICAL OBSERVATION WERE ALSO TAKEN. (NSF NORTH ATLANTIC RESIDENCE TIME BY CS-137 TRACER; CRUISE BEGAN AT BEAUFORT, NORTH CAROLINA PROCEEDED OUT ACROSS THE GULF STREAM TERMINATING BACK AT LEWES, DELAWARE)

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 PAGES

FUNDING:
NSF NO. GA-28752, UNIVERSITY OF DELAWARE

INVENTORY:

135

PUBLICATIONS:

CONTACT:
STUART KUPEERMAN 302 738 1212
UNIVERSITY OF DELAWARE
COLLEGE OF MARINE STUDIES
NEWARK DELA USA 19711

GRID LOCATOR (LAT):
730765 730766 730767 730768 730769 730770 730771 730780 730781 730782 730783 730784 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	40	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	40	OBS	1 OBS/DEPTH/ STATION		
TEMPERATURE	WATER	XBT	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-	SURFACE TO 980M	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS		
SALINITY	WATER	CONDUCTIVITY	PARIS PER THOUSAND	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT EXTINCTION	WATER	TRANSMISSOMETER LOWERING	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	EXTINCTION COEFFICIENTS WERE MEASURED AT EACH OF 28 STATIONS PLUS 2 VERTICAL DEPTH PROFILE WERE TAKEN AT SPECIES STATIONS
LIGHT SCATTERING COEFFICIENT	WATER	SMALL ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERIN G COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633 U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS
WIND SPEED	AIR	ANEMOMLTER	MILES PER HOUR	250	OBS	1 OBS/HALF-HOUR		WIND SPEED MEASURED AT SHIPS MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250	OBS	1 OBS/HALF-HOUR		
WAVE AMPLITUDE	WATER	VISUAL	FEET	250	OBS	1 OBS/HALF-HOUR	SEA SURFACE	
WAVE DIRECTION	WATER	VISUAL	COMPASS DIRECTION	250	OBS	1 OBS/HALF-HOUR	SEA SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	NUTRIENT PARAMETERS TAKEN AT EACH STATION FOR

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								EACH PARTICULAR WATER SAMPLE BOTTLE DEPTH
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
TOTAL PHAEOPHYTI N	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
CHITIN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM PER LITER	44	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	PARTICULATE CHITIN DATA TAKEN AT EACH OF 11 STATIONS AT THE VARIOUS BOTTLE DEPTHS PLUS SURFACE SAMPLE
COUNT OF MICROBIOTA	WATER	MICROSCOPE	COLONIES	34	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES
ORGANIC CARBON	DISSOLVED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	
ORGANIC CARBON	SUSPENDED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLILITERS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	
CARBON-14	WATER	MASS SPECTROMETRY	MILLIGRAM PER METER CUBED PER DAY	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	41	OBS	1 OBS/STATION/ DEPTH	0-980 METERS	17 CESIUM-137 SAMPLES AT ONE STATION WITH SPECIAL CAST TECHNIQUE WHILE OTHERS TAKEN FROM BULK WATER SAMPLE AT 0 AND 50 METERS AT 2 OBS/ STATION
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	24	OBS	2 OBS/STATION	0 TO 50 METERS	RADIUM-226 DATA TAKEN 2 OBS/ STATION AT 0 AND 50 METERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	MECHANICAL BT	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
SALINITY	WATER	STD	PARTS PER THOUSAND	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT SCATTERING COEFFICIENT	WATER	RIGHT ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERIN G COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES	34 OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES

DATA COLLECTED: 1964 TO PRESENT
RECEIVED: AUGUST 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBON DIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:
ALSO IN ALL USGS OFFICIAL REPOSITORY LIBRARIES

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
300 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
P. DEMARTE 717 782 4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG PENNSYLVANIA USA 17108

GRID LOCATOR (LAT):
730794 730795 730796 730797 730798 730799 740704 740705 740706 740707 740708 740709 740714 740715 740716 740717 740718 740719 740724 740725 740726 740727 740728 740729

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT		250	STATIONS			MAP, VERBAL DESCRIPTION AND LATITUDE AND LONGITUDE GIVEN
TEMPERATURE	WATER	UNKNOWN	DEG C	250	STATIONS			
DISSOLVED	WATER	UNKNOWN	MILLIGRAMS PER	250	STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS			LITER				
ELECTRICAL CONDUCTIVITY	WATER	UNKNOWN	MICROMHOS	250 STATIONS			
BIOCHEMICAL OXYGEN DEMAND	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
CALCIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
MAGNESIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
SODIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
POTASSIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
FLUORIDE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
NITRATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
DISSOLVED CARBON DIOXIDE GAS	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
BICARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
TOTAL ALKALINITY	WATER	UNKNOWN	MILLIGRAMS CACO3 PER LITER	200 STATIONS			
SULFATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
CHLORIDE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
ORTHOPHOSPHATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200 STATIONS			
HARDNESS	WATER	UNKNOWN	MILLIGRAMS CA AND MG PER LITER	200 STATIONS			ALSO NONCARBONATE HARDNESS
COLOR	WATER	PLATINUM-COBALT		200 STATIONS			
PH	WATER	UNKNOWN	PH UNITS	200 STATIONS			
SILICATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	50 STATIONS			
IRON	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50 STATIONS			
MANGANESE	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50 STATIONS			
CARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	50 STATIONS			
COUNT OF MICROBIOTA	WATER	UNKNOWN	NUMBER PER 100 ML	50 STATIONS			IMMEDIATE COLIFORM, FECAL COLIFORM, AND STREPTOCOCCI
ORGANIC CARBON	WATER	UNKNOWN	MILLIGRAMS PER LITER	50 STATIONS			
LIGHT ATTENUATION	WATER	UNKNOWN	JTU	10 STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SURFACTANTS	WATER	UNKNOWN		10 STATIONS			METHYLENE BLUE ACTIVE SUBSTANCE
ALUMINUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	10 STATIONS			
ARSENIC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CADMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CHROMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
COPPER	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
LEAD	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
MERCURY	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
NICKEL	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
ZINC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
AMMONIA	WATER	UNKNOWN	MILLIGRAMS PER LITER	10 STATIONS			
CHLOROPHYLL A	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	250 STATIONS			
ALDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CHLORDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDT	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDD	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DIELDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
ENDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
HEPTACHLOR	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
LINDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
2,4,5-T	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
2,4-D	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
TOXAPHENE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
SILVEX	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			

004973

MERCURY IN THE ENVIRONMENT

DATA COLLECTED: JANUARY 1972 TO JULY 1972

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
THE FIRST SECTION OF THIS TWO-PART REPORT REVIEWS BASIC PROPERTIES OF MERCURY AND ITS COMPOUNDS AS RELATED TO THEIR EFFECT ON VARIOUS FACETS OF THE ENVIRONMENT. AMONG THE TOPICS DISCUSSED ARE THE CHEMICAL FORMS AND HAZARDS OF MERCURY, INCIDENTS OF MERCURY CONTAMINATION, GOVERNMENTAL STANDARDS AND TOLERANCE LIMITS, LEVELS OF MERCURY IN THE ATMOSPHERE, BIOSPHERE, LITHOSPHERE AND HYDROSPHERE, AND THE FLUX THROUGH EACH SEGMENT. THE REALITY OF THE MERCURY PROBLEM GLOBALLY AND LOCALLY IS EVALUATED. A COMPREHENSIVE REVIEW OF THE ACCEPTED METHODS OF ANALYSES FOR MERCURY AND ITS COMPOUNDS IS ALSO PRESENTED. THE SECOND SECTION REPORTS ON RECENT STUDIES OF MERCURY LEVELS IN THE DELAWARE BAY REGION AND COMPARES THE CONCENTRATIONS FOUND IN THE WATERS AND SEDIMENTS TO VALUES FROM OTHER AREAS.
(DETAILED DELAWARE BAY MERCURY DATA INCLUDED AS PART OF A MORE GENERAL SEA GRANT REPORT)

DATA AVAILABILITY:
FOR SMALL FEE UNIVERSITY OF DELAWARE COLLEGE OF MARINE STUDIES

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
75 PAGES

FUNDING:
SEA GRANT NO. 2-35223

INVENTORY:

PUBLICATIONS:
LEPPLE, FREDERICK K. 1973. MERCURY IN THE ENVIRONMENT. SEA GRANT REPORT DEL-SG-8-73. 75 P.

CONTACT:
DIRECTOR 302 738 1212
COLLEGE OF MARINE STUDIES
ROBINSON HALL, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078433 73079533

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	41 STATIONS		SURFACE TO BOTTOM	SURFACE WATER SAMPLES DEPTH PROFILES AND BOTTOM SEDIMENTS WERE TAKEN AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								ANALYZED
TIME	EARTH	SAMPLING TIME	YMDHM	41	OBS			
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	41	OBS		SURFACE	ANALYSIS WAS BY FLAMELESS ATOMIC ABSORPTION
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	7	OBS		1 M ABOVE BOTTOM	PROFILE DEPTHS VARY FROM 01M, 6M, 12M, 14M, 47M
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	3	OBS		BOTTOM	
LIGHT EXTINCTION	WATER	CALCULATED	METERS	41	OBS	1 OBS/STATION		SECCHI DEPTH MEASURED TO RELATE TO PARTICULATE LOADING

DATA COLLECTED: DECEMBER 1972 TO NOVEMBER 1973 RECEIVED: OCTOBER 03, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE TIDAL MARSH REGION

ABSTRACT:
DATA FROM THE EXAMINATION OF FREE FATTY ACIDS AND ALIPHATIC HYDROCARBONS IN A 4-METER CORE FROM THE GREAT SALT MARSH NEAR LEWES, DELAWARE AND IN ESTUARINE, TIDAL CREEK AND SURFACE MARSH SEDIMENTS ARE PRESENTED AND DISCUSSED IN REPORT FORM. THE SEDIMENT CORES ARE DIVIDED FOR ANALYSIS INTO 20 CM INTERVALS.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
97 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
SWETLAND, P.J., 1975. LIPID GEOCHEMISTRY OF DELAWARE SALT MARSH ENVIRONMENTS. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 97 P.

CONTACT:
PAUL J. SWETLAND 302 645 2869
GEOLOGY DEPARTMENT, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730785

145

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	8	STATIONS			3 DELAWARE BAY STATIONS, 2 BROADKILL RIVER STATIONS, 2 MARSH SURFACE STATIONS, 1 MARSH SEDIMENT CORE
TIME	EARTH	STATION TIME	YMD	8	OBS			
SAND FRACTION	SEDIMENT	SETTLING/ WEIGHING	PERCENT BY WEIGHT	16	OBS			DELAWARE BAY SAMPLES NOT ANALYZED
CLAY FRACTION	SEDIMENT	SETTLING/	PERCENT BY	16	OBS			DELAWARE BAY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
		WEIGHING	WEIGHT					SAMPLES NOT ANALYZED
SILT FRACTION	SEDIMENT	SETTLING/ WEIGHING	PERCENT BY WEIGHT	16	OBS			DELAWARE BAY SAMPLES NOT ANALYZED
ALIPHATIC HYDROCARBONS	SEDIMENT	COLUMN CHROMATOGR APHY	MICROGRAMS PER GM	27	OBS			MARSH CORE SAMPLE NOT INCLUDED
FATTY ACIDS	SEDIMENT	COLUMN CHROMATOGR APHY	MICROGRAMS PER GM	20	OBS			MARSH CORE SAMPLE NOT INCLUDED
ALIPHATIC HYDROCARBONS	SEDIMENT	GAS CHROMATOGRAPH Y	PERCENT BY VOLUME OF CARBON NUMBER SPECIES PER TOTAL SPECIES	270	OBS			
FATTY ACIDS	SEDIMENT	GAS CHROMATOGRAPH Y	PERCENT BY VOLUME OF CARBON NUMBER SPECIES PER TOTAL SPECIES	176	OBS			
SEDIMENT STRUCTURE	SEDIMENT	VISUAL	DESCRIPTIVE WORD RANGES	1	OBS			

DATA COLLECTED: JULY 1962 TO PRESENT RECEIVED: MARCH 10, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON, NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA, TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTHO-AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, METHYLENE BLUE ACTIVE SUBSTANCES, CYANIDE, TOTAL COLIFORMS, FECAL COLIFORMS AND STREPTOCOCCI, ZINC, CALCIUM, MAGNESIUM, IRON, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM.
(DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:
WITH PERMISSION OF WATER COMMISSIONER, OR ON IBM CARDS AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
500 PAGE REPORT OR 9 PAGE SUMMARY

FUNDING:
PHILADELPHIA WATER DEPT

INVENTORY:

147

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215 686 1776
PHILADELPHIA WATER DEPT., RESEARCH AND DEVELOPMENT DIV.
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA PENNSYLVANIA USA 19107

GRID LOCATOR (LAT):
7307954285 7307950058 7307950078 7307950084 7307950085 7307950086 7307950093 7307951005 7307950120 7307950200 7407040478
7407040485 7407040528 7407040523 7407040544 7407040546 7407040551 7407001415 7407001436 7407050002 7407050003 7407050011

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	23	STATIONS	1 STATION/WK		ACCURACY WITHIN 200 FT
TIME	EARTH	STATION TIME		23	STATIONS	1 STATION/WK		
TIDAL PHASE	WATER	TABLES		23	STATIONS	1 STATION/WK		
TEMPERATURE	WATER	THERMISTOR	DEG C	23	STATIONS	1 STATION/WK	SLIGHTLY BELOW	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						SURFACE	
PH	WATER	PH METER	STANDARD PH UNITS	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
TOTAL ALKALINITY	WATER	TITRATION	MG/L AS CACO3	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
LIGHT SCATTERING COEFFICIENT	WATER	MULTISPECTRAL SCANNER	JACKSON TURBIDITY UNITS	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHOS PER CM AT 25 DEG C	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
SURFACTANTS	WATER	COLORIMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
BIOCHEMICAL OXYGEN DEMAND	WATER	SPECIFIC ION ELECTRODE	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
COUNT OF MICROBIOTA	WATER	FILTRATION	COLONIES PER 100 MG	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	REPORTED AS TOTAL COLIFORMS FECAL COLIFOMS, AND FECAL STREPTOCOCCI
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ALUMINUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CHLORIDE	WATER	AUTOANALYZER	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
UNREACTIVE PHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
AMMONIA	WATER	SPECIFIC ION ELECTRODE	MG/L AS N	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
NITRATE	WATER	AUTOANALYZER	MG/L AS N	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRITE	WATER	AUTOANALYZER	MG/L AS N	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
PHENOLS	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ARSENIC	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
BERYLLIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CALCIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CADMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
COPPER	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CHROMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
IRON	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
LEAD	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MAGNESIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MANGANESE	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
NICKEL	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ZINC	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CYANIDE	WATER	COLORIMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	

AN ENVIRONMENTAL INVENTORY OF THE QUEEN ANNE'S HARBOR TRACT
DATA COLLECTED: SEPTEMBER 1973 TO DECEMBER 1973

RECEIVED: JULY 26, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, ANNE ARUNDEL COUNTY, BOOKIN NECK AREA

ABSTRACT:
BIOLOGICAL, PHYSICAL, AND CHEMICAL PARAMETERS WERE COLLECTED FROM SEPTEMBER THROUGH DECEMBER, 1973 TO PRODUCE A DATA BASELINE FOR THE QUEEN ANNE'S HARBOR, BROOKIN NECK AREA, MARYLAND. PARAMETERS INCLUDE SPECIES COUNT OF PLANTS, ANIMALS, AND FISH, NUTRIENTS, TEMPERATURE, SALINITY, METALS, TURBIDITY, AND DISSOLVED SOLIDS AND GASES. (PROJECT CARRIED OUT BY JACK MCCORMICK AND ADDOCIATES FOR STATE OF MARYLAND)

DATA AVAILABILITY:
AVAILABLE UPON REQUEST FROM JACK MCCORMICK AND ASSOCIATES OFFICE IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
85 PAGES

FUNDING:
STATE OF MARYLAND, DEPARTMENT OF NATURAL RESURCES

INVENTORY:

PUBLICATIONS:

CONTACT:
JACK MCCORMICK 215 647 9000
JACK MCCORMICK AND ASSOCIATES
511 OLD LANCASTER ROAD
BERWYN PENNSYLVANIA USA 19312

GRID LOCATOR (LAT):
7307963100

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	13	STATIONS	1 SURVEY		
TIME	EARTH	STATION TIME	YMD	13	STATIONS	1 SURVEY		
TAXONOMIC LIST OF LAND PLANTS	LAND	KEY	QUALITATIVE	1	STATIONS	1 SURVEY		
COUNT OF BIRDS	AIR	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY		
SPECIES DETERMINATION OF BIRDS	AIR	KEY	QUALITATIVE	6	STATIONS	1 SURVEY		
COUNT OF AMPHIBIANS	WATER	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY		
SPECIES	WATER	KEY	QUALITATIVE	6	STATIONS	1 SURVEY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DETERMINATION OF AMPHIBIANS							
SPECIES DETERMINATION OF MAMMALS	LAND	KEY	QUALITATIVE	6 STATIONS	1 SURVEY		
COUNT OF MAMMALS	LAND	VISUAL	QUALITATIVE	6 STATIONS	1 SURVEY		
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	13 STATIONS	1 SURVEY		
SALINITY	WATER	CONDUCTIVITY	PARTS/THOUSAND	13 STATIONS	1 SURVEY		
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	MHOS/CENTIMETER	13 STATIONS	1 SURVEY		
PH	WATER	PH METER	PH UNITS	13 STATIONS	1 SURVEY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
ORGANIC CARBON	WATER	AUTOANALYZER	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
KJELDAHL NITROGEN	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
SULFATE	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
SULFIDE	WATER	TITRATION	MILLIGRAM/LITER	13 STATIONS	1 SURVEY		
LIGHT ATTENUATIO N	WATER	COLORIMETRY	FTU	13 STATIONS	1 SURVEY		
COLOR	WATER	COLORIMETRY	PLATINUM-COBALT UNITS	39 OBS	3 OBS/STATION		
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
KJELDAHL NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
SULFIDE	SEDIMENT	TITRATION	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
PHOSPHATE	SEDIMENT	SPECTROPHOTOMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
OILS	SEDIMENT	EXTRACTION/ WEIGHT	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39 OBS	3 OBS/STATION		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF PHYTOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF PHYTOPLANKTO N	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER/100 MILLILITER	39	OBS	3 OBS/STATION		TOTAL BACTERIA; FECAL BACTERIA; TOTAL COLIFORM; TOTAL STREPTOCO CCI
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELMARVA PENINSULA, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA COLLECTED ON THE PLANKTONIC AND BENTHIC ORGANISMS FOUND IN THE CHESAPEAKE AND DELAWARE CANAL AND ADJACENT WATERS DURING THE 1974 ECOLOGICAL STUDY OF THE AQUATIC ENVIRONMENT IN THE VICINITY OF THE PROPOSED SUMMIT POWER STATION ARE PRESENTED IN REPORT FORM. SPECIES DETERMINATIONS AND DISTRIBUTIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ORGANISMS ARE GIVEN IN ORDER TO OBTAIN INFORMATION ABOUT DAILY AND SEASONAL CHANGES IN POPULATION STRUCTURE. VITALITY STUDIES ON THE ZOOPLANKTON ARE INCLUDED. THE RESULTS OF A COMPREHENSIVE ANALYSIS OF THE PHYSICAL/CHEMICAL ENVIRONMENT IN THE CANAL WATERS DURING THE BIOLOGICAL SAMPLING PROGRAM ARE ALSO AVAILABLE. MEASURED PARAMETERS INCLUDE COLIFORM COUNTS, NUTRIENTS, PIGMENTS, HEAVY METALS, OIL AND GREASE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN GAS, PH, TURBIDITY AND TRANSPARENCY, HARDNESS, TOTAL ALKALINITY, CARBONATE ALKALINITY, SULFATE, TOTAL DISSOLVED SOLIDS, SUSPENDED SOLIDS, TOTAL PHOSPHORUS, DISSOLVED PHOSPHORUS, NITRATE-NITROGEN, NITRITE-NITROGEN, AMMONIA, ORGANIC NITROGEN, MAGNESIUM, CALCIUM AND TOTAL SILICA.

DATA AVAILABILITY:
UPON PERMISSION FROM DELMARVA POWER AND LIGHT COMPANY

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
REPORTS
103 PAGES

FUNDING:
DELMARVA POWER AND LIGHT COMPANY

INVENTORY:

PUBLICATIONS:
INTERPRETIVE REPORT 1974 BY RAYTHEON COMPANY FOR UNITED ENGINEERS AND CONSTRUCTORS INC., CLIENT: DELMARVA POWER AND LIGHT COMPANY; COMPLETE REPORT OF RAW DATA IN ANNUAL DATA REPORT

CONTACT:
HUDSON HOEN 302 479 3205
DELMARVA POWER AND LIGHT COMPANY
800 KING STREET
WILMINGTON DELAWARE USA 19899

GRID LOCATOR (LAT):
73079533

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	7	STATIONS			
TIME	EARTH	STATION TIME	YMD	7	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG F	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
SALINITY	WATER	TITRATION	PPT	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG/L	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
PH	WATER	PH METER	PH UNITS	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
LIGHT ATTENUATIO N	WATER	COLORIMETRY	PERCENT TRANSMITTANCE, JTU	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
HARDNESS	WATER	EDTA TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL ALKALINITY	WATER	TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER,	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
					DECEMBER, BIWEEKLY - MARCH-OCTOBER		
CARBONATE ALKALINITY	WATER	TITRATION	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SULFATE	WATER	NEPHELOMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL SOLIDS	WATER	DRY WEIGHT	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
PHOSPHORUS	WATER	COLORIMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
PHOSPHORUS	DISSOLVED	COLORIMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
AMMONIA	WATER	TITRATION	MG/L	80 OBS	MONTHLY -	SURFACE,	1 SAMPLE PER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
					JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	BOTTOM	OBS; 2 STATIONS
ORGANIC NITROGEN	WATER	TITRATION	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRATE	WATER	COLORIMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRITE	WATER	COLORIMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	WATER	EXTRACTION/ WEIGHT	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
MAGNESIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
CALCIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
					MARCH-OCTOBER		
ALUMINUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SILICON	WATER	COLORIMETRY	MG/L	80 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	SEDIMENT	EXTRACTION/ WEIGHT	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	16 OBS	MONTHLY	SURFACE	4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 1 SAMPLE PER OBS
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5 OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5 OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES PER 100 ML	64 OBS	MONTHLY	SURFACE, BOTTOM	TOTAL AND FECAL COLIFORM COUNT; 4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 2 SAMPLES PER OBS
CHLOROPHYLL A	WATER	FLUOROMETRY	MG/M3	4 STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS; JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
TOTAL PHAEOPHYTI N	WATER	FLUOROMETRY	MG/M3	4 STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS; JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
COUNT OF PHYTOPLANKTON	WATER	FILTRATION	NUMBER PER SPECIES PER ML PER SAMPLE	560 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
SPECIES DETERMINATION OF PHYTOPLANKTO N	WATER	KEY	SPECIES PER ML PER SAMPLE	560 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
COUNT OF ZOOPLANKTON	WATER	FIXED, STAINED, ALIQUOT	NUMBER PER SPECIES PER M3 PER SAMPLE	560 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS; 5-TENTHS M. 500-MICRON MESH NET USED IN SAMPLING;

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
					MARCH- OCTOBER		DAY SAMPLING
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES PER M3 PER SAMPLE	560 OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH- OCTOBER	SURFACE, BOTTOM	COUNT OF ZOOPLANKTON
MORTALITY OF . ZOOPLANKTON	WATER	VISUAL	PERCENT OF TOTAL INDIVIDUA LS PER SPECIES DEAD AT TIME OF SAMPLING PER SAMPLE	16 OBS	MONTHLY	SURFACE, BOTTOM	2 STATIONS; 1 SAMPLE PER OBS; MARCH, JULY, SEPTEMBER , NOVEMBER
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES PER SAMPLE	135 OBS	MONTHLY		5 STATIONS; 3 SAMPLES PER OBS; APRIL- NOVEMBER; 523 CM2 PONAR SAMPLER
COUNT OF BENTHIC ANIMALS	BOTTOM	MICROSCOPE	NUMBERS PER SPECIES PER SAMPLE	135 OBS	MONTHLY		5 STATIONS; 3 SAMPLES PER OBS; APRIL- NOVEMBER; 523 CM2 PONAR SAMPLER
REACTIVE PHOSPHATE	WATER	COLORIMETRY	UG/L	72 OBS	MONTHLY	SURFACE, BOTTOM	

DATA COLLECTED: 1967 TO 1968

RECEIVED: AUGUST 27, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, NEWARK, PORT MAHON MARSH

ABSTRACT:
PRESENTED IN REPORT FORM ARE DATA COLLECTED DURING A STUDY CONDUCTED IN DELAWARE DURING 1967 AND 1968 TO EVALUATE THE EFFECTS OF CERTAIN POTENTIAL CANDIDATE MOSQUITO CONTROL INSECTICIDES ON THREE NON-TARGET SALT MARSH ORGANISMS: THE COMMON KILLIFISH (FUNDULUS HETEROCLITUS), THE GRASS SHRIMP (PALAEMONETES PUGIO) AND THE FIDDLER CRAB (UEA PUGNAX). EMPHASIZED ARE THE CUMULATIVE AND/OR ACUTE EFFECTS OF CERTAIN GRANULAR AND LIQUID FORMULATIONS OF MOSQUITO INSECTICIDES ON THE NON-TARGET SALT MARSH ORGANISMS IN SMALL SCALE FIELD TESTS, THE PERSISTENCE OF CERTAIN INSECTICIDES IN THE HABITAT WATER AND THE PERCENT REDUCTION OF THE SALT MARSH MOSQUITO BY ULTRA-LOW VOLUME APPLICATIONS OF INSECTICIDE IN LARGE SCALE FIELD TESTS.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
80 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:

ZIMMERMAN, J.H., 1969. TOXICITY OF PARIS GREEN, METHOXYCHLOR AND NEW ORGANOPHOSPHATE INSECTICIDES TO SALT MARSH KILLIFISH AND CRUSTACEANS. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 80 P.

CONTACT:

MORRIS LIBRARY 302 738 2455
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			UNIVERSITY OF DELAWARE EXPERIMENTAL FARM, NEWARK; PORT MAHON MARSH
TIME	EARTH	SAMPLING TIME	Y	2	STATIONS			
MORTALITY OF PELAGIC FISH	WATER	VISUAL	PERCENT MORTALITY PER	72	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			SPECIES					
MORTALITY OF BENTHIC ANIMALS	BOTTOM	VISUAL	PERCENT MORTALITY PER SPECIES	74	OBS			
MORTALITY OF INSECTS	LAND	VISUAL	PERCENT MORTALITY OF MOSQUITO LARVAE	97	OBS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		72	OBS			KILLFISH
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		74	OBS			FIDDLER CRAB, GRASS SHRIMP
SPECIES DETERMINATION OF INSECTS	LAND	KEY		97	OBS			MOSQUITOES

DATA COLLECTED: MARCH 1974 TO PRESENT RECEIVED: MARCH 04, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN

ABSTRACT:
THE ENVIRONMENTAL PROTECTION AGENCY, ENVIRONMENTAL RESEARCH LABORATORY, HAS BEEN COLLECTING DATA SINCE MARCH 1974 FROM TWO OCEAN DISPOSAL SITES APPROXIMATELY 60 MILES OFF THE COAST OF MARYLAND. THE PARAMETERS INCLUDED IN THIS STUDY ARE: ALUMINUM, CADMIUM, CHROMIUM, COBALT, COPPER, IRON, LEAD, MANGANESE, NICKEL, SILVER, TITANIUM, VANADIUM AND ZINC IN BOTH THE SEDIMENT AND ORGANISMS. MEASUREMENTS OF METALS IN CLAMS AND SCALLOPS ARE SEPARATED BY MUSCLE AND ORGANS. OTHER PARAMETERS INCLUDED ARE: SPECIES DETERMINATION OF BENTHIC ANIMALS, WEIGHT OF BENTHIC ANIMALS AND LENGTH OF BENTHIC ANIMALS. CONTACT DR. D.K. PHELPS, SCIENTIFIC AND TECHNICAL DIRECTOR, EPA ENVIRONMENTAL RESEARCH LABORATORY, SOUTH FERRY ROAD, NARRAGANSETT, RHODE ISLAND 02882.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC DISC
1 DISC (531200 BYTES)

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. D.K. PHELPS 401 789 1071
ENVIRONMENTAL PROTECTION AGENCY - REGION 1 ENVIRONMENTAL RESEARCH LABORATORY
SOUTH FERRY ROAD
NARRAGANSETT RHODE ISLAND USA 02882

GRID LOCATOR (LAT):
730773 730774 730783 730784

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TIME	EARTH	STATION TIME	YMD	30	STATIONS			
POSITION	EARTH	LONG RANGE NAVIGATIONAL NET	DMS	30	STATIONS			
ALUMINUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			
CADMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			
COBALT	SEDIMENT	ATOMIC ABSORPTION	PPM DRY WEIGHT	30	STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		SPECTROMETRY					
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
MANGANESE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
SILVER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
TITANIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
VANADIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			
ALUMINUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
CADMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
CHROMIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
COBALT IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
COPPER IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
IRON IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
LEAD IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30 STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								SEPARATELY
MANGANESE IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
NICKEL IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
SILVER IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
TITANIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
VANADIUM IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
ZINC IN BIO MATERIAL	BOTTOM	ATOMIC ABSORPTION SPECTROMETRY	PPM DRY WEIGHT	30	STATIONS			AMOUNTS IN ORGANS AND MUSCLE DETERMINED SEPARATELY
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		30	STATIONS			CLAMS AND SCALLOPS
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT		30	STATIONS			
WEIGHT OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT		30	STATIONS			
POSITION	EARTH	SHORT RANGE NAVIGATIONAL NET	DMS	30	STATIONS			MINI RANGER III

DATA COLLECTED: 1946 - PRESENT

PROJECTS:
NPDES PERMIT COMPLIANCE MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U. S., VIRGINIA

ABSTRACT:
THIS FILE CONTAINS POINT DISCHARGE TESTING DATA FROM AS EARLY AS 1946. BY THE MID-1960's, THE STATE WATER CONTROL BOARD HAD DEVELOPED A REGULAR MONITORING PROGRAM. IN 1972 NPDES UNDER PL92-500 REPLACED THIS PROGRAM. EACH MAJOR DISCHARGER IS TESTED BY VSWCB AT LEAST ANNUALLY TO VERIFY THE DATA FROM THE DISCHARGER MONITORING REPORTS. MINOR DISCHARGES SHOULD BE TESTED ANNUALLY. SOME PARAMETERS TESTED INCLUDE NUTRIENTS, HEAVY METALS, KEPONE AND OILS. THESE REPORTS ARE ON FILE WITH EACH OF THE RESPECTIVE DMR'S WHICH TOTAL APPROXIMATELY 4000 FILES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1952 - DECEMBER 1952

PROJECTS:
OBSERVATIONS ON THE COPPER AND MANGANESE CONTENT IN THE OYSTER IN THE UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, SEVERN RIVER, HACKETTS POINT, TOLLYS POINT

ABSTRACT:
THE PURPOSE OF THIS STUDY WAS TO DETERMINE THE CONCENTRATION OF COPPER AND MANGANESE IN THE OYSTER, CRASSOSTREA VIRGINICA, AND IN THE WATER SURROUNDING THE OYSTER BAR. TWO LOCATIONS WERE SAMPLED AT THE MOUTH OF THE SEVERN RIVER. COLLECTIONS WERE DONE BIMONTHLY DURING 1952.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN, MARYLAND ROOM 301-454-3035
McKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1955 TO PRESENT

PROJECTS:
VIRGINIA STATE FISH KILL CASE FILES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:
THE VIRGINIA STATE WATER CONTROL BOARD IS RESPONSIBLE FOR INVESTIGATING ALL FISH KILLS. THE CAUSE, EXTENT AND COSTS OF DAMAGE MUST BE DETERMINED. ONLY SPARSE COVERAGE WAS GIVEN TO FISH KILLS FROM 1955 TO 1970 (286 CASES). STARTING IN 1970, COVERAGE INCREASED CONSIDERABLE (979 CASES TO DATE), AS DID THE QUALITY OF THE REPORTS. ONLY ABOUT 10% OF THE REPORTS INCLUDE WATER AND/OR TISSUE ANALYSES FOR HEAVY METALS, PESTICIDES, CHLORINE AND NUTRIENTS AND THESE METHODS HAVE VARIED OVER THE YEARS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
211 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1960 - SEPTEMBER 1963

PROJECTS:

FIELD TESTS OF HERBICIDE TOXICITY TO CERTAIN ESTUARINE ANIMALS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, WICOMICO RIVER, PATUXENT RIVER

ABSTRACT:

FROM 1960-1963 CAGED BLUE CRABS (CALLINECTES SAPIDUS), EASTERN OYSTERS (CRASSOSTREA VIRGINICA), SOFTSHELL CLAMS (MYA ARENARIA), AND VARIOUS SPECIES OF FISH WERE EXPOSED EXPERIMENTALLY TO DIFFERENT CONCENTRATIONS OF HERBICIDES IN THE FIELD IN MARYLAND AND VIRGINIA TIDEWATERS TO DETERMINE POSSIBLE TOXICITY EFFECTS. HERBICIDES TESTED WERE PRINCIPALLY 2,4-D FORMULATIONS WHICH SHOWED PROMISE OF EFFECTIVELY CONTROLLING EURASIAN WATERMILFOIL. EMPIRICAL COMPARISONS OF CLAM POPULATIONS IN TREATED AND CONTROL PLOTS WERE MADE IN 1961, 1962 AND 1963.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4281
UNIVERSITY OF MARYLAND
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1963 - OCTOBER 1963

PROJECTS:
FIELD STUDIES OF SHELL REGROWTH AS A BIOINDICATOR OF EASTERN OYSTER RESPONSE TO 2,4-D BEE

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, WICOMICO RIVER, POTOMAC RIVER

ABSTRACT:
NEW GROWTH WAS FILED FROM EASTERN OYSTER SHELLS AND WIRE TRAYS HOLDING 25 OYSTERS EACH WERE EXPOSED TO 2,4-D BEE AT RATES OF EITHER 22.5, 33.75 OR 67.5 KGAE (ACID EQUIVALENT)/H (20, 30 OR 60 LB AE/ACRE). REGENERATED SHELL GROWTH WAS MEASURED TO DETERMINE THE EFFECT OF HERBICIDE APPLICATION ON THE OYSTER. TWO SITES WERE USED: A DOUBLE-POND AREA WITH NARROW INLET AND OUTLET (COATIGUN RUN ON PATUXENT RIVER), AND AN OPEN BAY (CHAPTICO BAY OFF THE WICOMICO RIVER, A TRIBUTARY TO THE POTOMAC RIVER).

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-326-4281
UNIVERSITY OF MARYLAND
CHESAPEAKE BIOLOGICAL LABORATORY
BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1964 - NOVEMBER 1967

PROJECTS:

GREENING AND COPPER ACCUMULATION IN THE AMERICAN OYSTER IN THE VICINITY OF A STEAM ELECTRIC GENERATING STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:

THIS REPORT SUMMARIZES DATA ON THE GREEN COLOR AND COPPER UPTAKE IN OYSTERS IN THE PATUXENT RIVER ESTUARY. THE DATA COVERS THE PERIOD FROM MAY 1964 TO NOVEMBER 1967 AND FROM MARCH 1969. SIX STATIONS, BOTH UPSTREAM AND DOWNSTREAM OF THE CHALK POINT STEAM ELECTRIC STATION, WERE MONITORED MONTHLY WHENEVER POSSIBLE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

WILLEM ROOSENBURG 301-326-4281
POST OFFICE BOX 38
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1965 - 1972

PROJECTS:
ORGANOCHLORINE RESIDUES IN ESTUARINE MOLLUSKS, 1965-1972 - NATIONAL PESTICIDE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, VIRGINIA

ABSTRACT:
THE PROGRAM IS A NATIONAL PROGRAM FOR MONITORING ESTUARINE MOLLUSKS IN 15 COASTAL STATES. FIFTEEN ORGANOCHLORINE COMPOUNDS ARE ANALYZED FOR THEIR CONCENTRATIONS IN FIVE SPECIES OF ESTUARINE MOLLUSKS FROM 1965-72. THE RESIDUE DATA FOR THE INDIVIDUAL STATES IS PRESENTED AS WELL AS A GENERAL SUMMARY AND CONCLUSIONS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PHILIP BUTLER 904-932-5311
EPA ENVIRONMENTAL RESEARCH LABORATORY
SABINE ISLAND
GULF BREEZE, FLORIDA 32561

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1966 - 1976

PROJECTS:
MORGANTOWN STEAM ELECTRIC STATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:
THIS REPORT (VOLUMES I AND II) SUMMARIZES THE RESULTS OF A 10-YEAR PERIOD (1966-1976) OF STUDIES. THEY WERE DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA ON THE AQUATIC ECOSYSTEM OF THE POTOMAC RIVER IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC STATION. THE REPORT INCLUDES HYDROTHERMAL DATA, CHEMICAL AND PHYSICAL DATA (SALINITY, TEMPERATURE, NUTRIENTS, DISSOLVED OXYGEN, PH, FREE DISSOLVED CARBON DIOXIDE, HEAVY METALS), PHYTOPLANKTON AND BACTERIOLOGICAL DATA, MACROINVERTEBRATE SURVEYS AND FISH SURVEYS. THE APPENDICES INCLUDE TWO STUDIES (1971 AND 1976) ON METALS IN OYSTERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 215-567-3700
THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
DIVISION OF LIMNOLOGY AND ECOLOGY
19TH AND THE PARKWAY
PHILADELPHIA, PA 19103

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1966 - SEPTEMBER 1966

PROJECTS:

THE ACCUMULATION AND LOSS OF FIELD-APPLIED BUTOXYETHONAL ESTER OF 2,4-D IN EASTERN OYSTERS <u>CRASSOSTREA VIRGINICA</u> AND SOFT-SHELLED CLAMS, <u>MYA ARENARIA</u>

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, WESTERN SHORE, WICOMICO RIVER

ABSTRACT:

FIELD STUDIES IN THE WICOMICO RIVER WERE MADE IN 1966 TO DETERMINE THE ACCUMULATION AND LOSS OF 2,4-D RESIDUES IN EASTERN OYSTERS AND SOFT-SHELLED CLAMS. FOUR ONE-ACRE PLOTS, ABOUT 209 FEET TO A SIDE, WERE MEASURED. THREE WERE TREATED AND ONE WAS USED AS A CONTROL. THE EFFECT OF 2,4-D WAS MEASURED BECAUSE IT HAD BEEN USED AS A CONTROL FOR EURASIAN WATERMILFOIL PREVIOUSLY. OYSTERS AND CLAMS WERE PLACED AT THE CENTER OF EACH PLOT IN CAGES. 2,4-D WAS ADMINISTERED IN DIFFERENT CONCENTRATIONS TO THE PLOTS. OYSTERS AND CLAMS WERE BIOASSAYED AT DIFFERENT INTERVALS OVER A 2 MONTH PERIOD TO STUDY THE RATE OF RESIDUE LOSS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4821
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MARYLAND 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1970 - PRESENT

PROJECTS:
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM BEGAN IN 1970 TO MONITOR THE AREA AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT ON THE CHESAPEAKE BAY. EACH YEAR APPROXIMATELY 1500 ANALYSES ARE PERFORMED ON 800 ENVIRONMENTAL SAMPLES FROM THE AQUATIC, ATMOSPHERIC AND TERRESTRIAL ENVIRONMENTS. SOME OF THE PARAMETERS MEASURED INCLUDE TRITIUM, STRONTIUM-89, STRONTIUM-90 AND GROSS ALPHA, BETA AND GAMMA EMITTING NUCLIDES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
STEVEN LONG 301-269-2261
MARYLAND DEPT. OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BLDG. - 580 TAYLOR AVENUE
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1970 - 1972

PROJECTS:
WATER QUALITY CONDITIONS IN THE CHESAPEAKE BAY SYSTEM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:
THIS IS A COMPILATION AND ANALYSIS OF WATER QUALITY DATA OF THE CHESAPEAKE BAY IN 1972. THE DATA, AND ANALYSIS OF IT, IS DIVIDED BY GEOGRAPHIC AREA AND FURTHER SUBDIVIDED BY RIVER BASIN. PARAMETERS ANALYZED INCLUDE CHLOROPHYLL A, DISSOLVED OXYGEN, NITROGEN, PHOSPHORUS, COLIFORM BACTERIA, HEAVY METALS AND PESTICIDES, WHERE THE DATA EXISTS. DATA WAS GATHERED FROM THE ANNAPOLIS FIELD OFFICE, NATIONAL MARINE FISHERIES SERVICE, U.S. GEOLOGICAL SURVEY, MARYLAND DEPARTMENT OF WATER RESOURCES, UNIVERSITY OF MARYLAND, THE JOHNS HOPKINS UNIVERSITY, VIRGINIA WATER CONTROL BOARD, VIRGINIA INSTITUTE OF MARINE SCIENCE, THE DISTRICT OF COLUMBIA DEPARTMENT OF ENVIRONMENTAL SERVICES, MARYLAND DEPARTMENT OF HEALTH AND MARYLAND ENVIRONMENTAL SERVICE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN - 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, ENVIRONMENTAL PROTECTION AGENCY
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1970 - DECEMBER 1970

PROJECTS:
METALS IN BALTIMORE HARBOR AND UPPER CHESAPEAKE BAY AND THEIR ACCUMULATION BY OYSTERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
THIS STUDY BEGAN IN MAY 1970. IT SURVEYED TRACE METAL CONCENTRATIONS IN THE SEDIMENTS OF BALTIMORE HARBOR AND UPPER CHESAPEAKE BAY AT 45 STATIONS. FIELD STUDIES WERE CONDUCTED AT 3 STATIONS ON THE EFFECTS OF SEDIMENTS AND SALINITY ON TRACE METAL UPTAKE BY OYSTERS. PRELIMINARY LABORATORY STUDIES OF THE UPTAKE OF ESTUARINE SHELLFISH OF TRACE METALS FROM SEDIMENTS WERE INITIATED. THIS WAS A JOINT EFFORT OF THE MARYLAND BOARD OF PUBLIC WORKS, THE MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE AND THE MARYLAND DEPARTMENT OF NATURAL RESOURCES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-338-8255
CHESAPEAKE BAY INSTITUTE - JOHNS HOPKINS UNIVERSITY
34TH AND CHARLES STREETS
BALTIMORE, MARYLAND 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1970 - APRIL 1971

PROJECTS:
HEAVY METALS ANALYSES OF BOTTOM SEDIMENT IN THE POTOMAC RIVER ESTUARY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESPEAKE BAY, POTOMAC RIVER

ABSTRACT:
THIS PROGRAM WAS A COORDINATED EFFORT BETWEEN THE ANNAPOLIS FIELD OFFICE AND THE RESEARCH AND DEVELOPMENT LABORATORY OF THE U.S. NAVAL ORDINANCE STATION IN INDIAN HEAD, MARYLAND. SAMPLES WERE COLLECTED IN AUGUST AND SEPTEMBER 1970, AND AGAIN IN APRIL 1971. THEY WERE ANALYZED FOR LEAD, COPPER, CALCIUM, BARIUM, SILVER, IRON, STRONTIUM, LITHIUM, COBALT, MAGNESIUM, MANGANESE, ALUMINUM, POTASSIUM, ZINC, VANADIUM, CADMIUM, CHROMIUM AND NICKEL. STATIONS WERE LOCATED FROM CHAIN BRIDGE IN WASHINGTON, D.C. TO THE MOUTH OF THE POTOMAC RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1971 - PRESENT

PROJECTS:

SHELLFISH SANITATION PROGRAM

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS ONGOING SHELLFISH MONITORING PROGRAM BEGAN IN 1971. SAMPLING IS DONE AT 1500 STATIONS AROUND THE CHESAPEAKE BAY AND ITS TRIBUTARIES AT LEAST ONCE A MONTH. SAMPLES ARE ANALYZED FOR TEMPERATURE, SALINITY, DISSOLVED OXYGEN, FECAL COLIFORM AND TOTAL COLIFORM. SHELLSTOCK AND FINFISH ARE COLLECTED ROUTINELY AND ANALYZED FOR HEAVY METAL, PESTICIDE, CHLORINATED HYDROCARBON, BACTERIAL AND ORGANIC CHEMICAL CONCENTRATIONS. BOATS ARE COLLECTING SAMPLES FOUR DAYS A WEEK, 50 WEEKS A YEAR.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

MAX EISENBERG 301-383-2365
MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE
201 W. PRESTON STREET, P.O. BOX 13387
BALTIMORE, MD 21201

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MARCH 1971 - DECEMBER 1971

PROJECTS:
PROCESSES AFFECTING THE COMPOSITION OF ESTUARINE WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, SUSQUEHANNA RIVER

ABSTRACT:
THIS STUDY INVOLVES HEAVY METAL BEHAVIOR IN WATER FROM THE UPPER CHESAPEAKE BAY AND SUSQUEHANNA RIVER. THE PARAMETERS INCLUDE IRON, ZINC, COPPER, NICKEL, COBALT, CHROMIUM AND CADMIUM. ALL OF THE DATA IS SUMMARIZED ON GRAPHS. DATA FROM 1961, 1965, 1966 AND 1971 IS INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-338-8255
CHESAPEAKE BAY INSTITUTE, THE JOHNS HOPKINS UNIVERSITY
34TH AND CHARLES STREETS
BALTIMORE, MARYLAND 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MARCH 1971 - DECEMBER 1971

PROJECTS:
PROCESSES AFFECTING THE COMPOSITION OF ESTUARINE WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, SUSQUEHANNA RIVER

ABSTRACT:
THIS STUDY INVOLVES HEAVY METAL BEHAVIOR IN WATER FROM THE UPPER CHESAPEAKE BAY AND SUSQUEHANNA RIVER. THE PARAMETERS INCLUDE IRON, ZINC, COPPER, NICKEL, COBALT, CHROMIUM AND CADMIUM. ALL OF THE DATA IS SUMMARIZED ON GRAPHS. DATA FROM 1961, 1965, 1966 AND 1971 IS INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-338-8255
CHESAPEAKE BAY INSTITUTE, THE JOHNS HOPKINS UNIVERSITY
34TH AND CHARLES STREETS
BALTIMORE, MARYLAND 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1971 - APRIL 1972

PROJECTS:

IRON, ZINC, MAGNESIUM AND COPPER CONCENTRATIONS IN BODY MEAT OF THE BLUE CRAB

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THIS STUDY ANALYZES THE BODY MEAT OF THE BLUE CRAB, CALLINECTES SAPIDUS, FOR IRON, ZINC, MAGNESIUM AND COPPER BY ATOMIC ABSORPTION. SAMPLES WERE COLLECTED BIWEEKLY FROM MAY 5, 1971 TO APRIL 19, 1972. TWENTY-SIX SAMPLES OVER THE ONE YEAR PERIOD WERE TAKEN.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DAVID BOON 301-968-1655
BOX 351
UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL AND ESTUARINE STUDIES
MARINE PRODUCTS LABORATORY
CRISFIELD, MD 21817

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: SEPTEMBER 1971 - MAY 1973

PROJECTS:
THE DYNAMICS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA -- SEASONAL EFFECTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:
THE SEASONAL EFFECTS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA, WERE STUDIED USING A GENETICALLY SIMILAR POPULATION. SAMPLES WERE COLLECTED MONTHLY FROM SEPTEMBER 1971 THROUGH MAY 1973 IN THE RHODE RIVER. THE SAMPLES WERE ANALYZED FOR Mn, Fe, Zn, Cu, AND Cd IN THE SOFT TISSUE AS WELL AS IN THE SHELL.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN FRAZIER 301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: NOVEMBER 1971 - OCTOBER 1972

PROJECTS:
CHESTER RIVER STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
THE MAJOR OBJECTIVES OF THE CHESTER RIVER STUDY WERE TO DETERMINE THE EFFECTS OF CHLORINATED HYDROCARBONS AND OTHER POLLUTANTS UPON SHELLFISH AND BIOTA IN THE CHESTER RIVER, AND IDENTIFICATION OF THE SOURCES, DISTRIBUTION, AND MODES OF TRANSPORT OF THESE POLLUTANTS WITHIN THE RIVER SYSTEM. LABORATORY TOXICITY STUDIES ON SHELLFISH WERE CONDUCTED AND A FIELD SAMPLING PROGRAM MEASURED POLLUTANT LEVELS IN BIOTA, SEDIMENTS AND WATER. HYDROLOGICAL AND METEROLOGICAL PARAMETERS WERE CONSTANTLY MEASURED IN ORDER TO DETERMINE WATER CIRCULATION AND TRANSPORT OF POLLUTANTS THROUGH THE RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-765-1000
WESTINGHOUSE OCEAN RESEARCH LABORATORY
BOX 1488
ANNAPOLIS, MARYLAND 21404

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1972 - PRESENT

PROJECTS:
DISCHARGER MONITORING REPORTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U. S., VIRGINIA

ABSTRACT:
THESE REPORTS ARE REQUIRED AS PART OF THE NPDES PROGRAM UNDER PL 92-500 INITIATED IN 1972. MUNICIPAL AND INDUSTRIAL DISCHARGERS SELF-TEST THEIR OWN EFFLUENT TO MONITOR SUCH PARAMETERS AS NUTRIENTS, HEAVY METALS, KEPONE AND OILS WITH VARYING FREQUENCIES ASSIGNED EACH PARAMETER. APPROXIMATELY 4000 FILES ARE NOW ACTIVE AND ARE ADMINISTERED BY THE STATE FOR EPA.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1972 - 1975

PROJECTS:
TRACE METALS IN THE CHESAPEAKE BAY - BIOLOGICAL ASPECTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SOUTH RIVER

ABSTRACT:
THIS PROJECT GENERATED DATA FROM 1972 THROUGH 1975. MOST OF THE SAMPLING WAS DONE IN THE RHODE RIVER. HOWEVER, DATA ON METAL CONCENTRATIONS IN MOLLUSKS WAS COLLECTED IN THE SOUTH RIVER (1972-73), PATUXENT RIVER (1973), MAGOTHY RIVER (1973) AND IN STONEY CREEK (1973) WHICH IS A TRIBUTARY OF THE PATAPSCO RIVER. SEDIMENTS WERE ANALYZED FOR Mn, Cu, Zn, Fe, Cd, Pb, Co, Ni AND Cr. THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA, AND 5 OTHER MOLLUSKS WERE ANALYZED FOR CONCENTRATIONS OF Mn, Zn, Fe, Cd and Cu. SHELLS WERE ALSO ANALYZED. INVERTEBRATES WERE COLLECTED AND ANALYZED IN 1972 AND 1973 FOR Mn, Zn, Cu, Cd AND Fe. NINE SPECIES OF FISH WERE SAMPLED DURING 1972, 1973 AND 1974 AND ANALYZED FOR THE 5 HEAVY METALS ABOVE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN FRAZIER 301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1972 TO PRESENT

PROJECTS:
HEAVY METALS IN COASTAL FISHES OF NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., NORTH CAROLINA

ABSTRACT:
HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
RICHARD BARBER 919-728-2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT, N.C. 28516

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: SEPTEMBER 1972 - AUGUST 1973

PROJECTS:

THE DYNAMICS OF METALS IN THE AMERICAN OYSTER, CRASSOSTREA VIRGINICA--ENVIRONMENTAL EFFECTS

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, RHODE RIVER, MAGOTHY RIVER, STONEY CREEK

ABSTRACT:

THE CONCENTRATIONS OF Mn, Fe, Zn, Cu AND Cd WERE STUDIED IN OYSTER SAMPLES FROM SEPTEMBER, 1972 UNTIL AUGUST, 1973. GENETICALLY SIMILAR POPULATIONS WERE LOCATED IN THREE AREAS IN THE RHODE RIVER INCLUDING TWO IN CADLE CREEK AND ONE OFF THE DOCK OF THE SMITHSONIAN CENTER FOR ENVIRONMENTAL STUDIES. THESE AREAS REPRESENTED WATERSHEDS IMPACTED BY DIFFERENT LAND USE. SAMPLES WERE COLLECTED MONTHLY WITH 10 OYSTERS FROM EACH STATION. HEAVY METAL CONCENTRATIONS, AND MEASUREMENTS OF SOFT TISSUE DRY WEIGHT, SHELL DIMENSIONS AND SHELL WEIGHT WERE TAKEN. SEDIMENT ANALYSES FOR METALS WERE USED TO EVALUATE ENVIRONMENTAL CONTAMINATION.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

JOHN FRAZIER   301-955-3045
SCHOOL OF HYGIENE AND PUBLIC HEALTH
THE JOHNS HOPKINS UNIVERSITY
615 N. WOLFE STREET
BALTIMORE, MD 21205

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1973 - MARCH 1973

PROJECTS:
DISTRIBUTION OF METALS IN BALTIMORE HARBOR SEDIMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, BALTIMORE HARBOR

ABSTRACT:
THIS STUDY WAS AN INVENTORY OF METALS CONTAMINATION OF BALTIMORE HARBOR. SAMPLES WERE TAKEN IN 1973 AT 176 STATIONS AND ANALYZED FOR Cd, Cu, Cr, Hg, Pb, Zn, Ni and Mn. ATOMIC ABSORPTION SPECTROPHOTOMETRY WAS USED. DISTRIBUTION PATTERNS OF THE METALS WERE RELATED TO INDUSTRIAL AND MUNICIPAL INPUTS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1973 - DECEMBER 1974

PROJECTS:
UPPER BAY SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THE UPPER BAY SURVEY WAS AN EXTENSION AND EXPANSION OF THE EARLIER CHESTER RIVER STUDY. ITS PURPOSE WAS TO ASSESS THE NATURE OF THE SOURCES, ROUTES, AND SINKS OF CHLORINATED HYDROCARBONS AND BACTERIA DAMAGING AQUATIC SPECIES. STATIONS (24) WERE LOCATED ACROSS 11 TRANSECTS FROM THE MOUTH OF THE SUSQUEHANNA TO THE MOUTH OF THE SEVERN RIVER. LABORATORY AND FIELD PROGRAMS WERE CARRIED OUT IN SIX FIELDS INCLUDING MARINE BIOLOGY, MICROBIOLOGY, BIOCHEMISTRY, ESTUARINE SEDIMENTOLOGY, HYDROLOGY AND METEOROLOGY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-765-1000
WESTINGHOUSE ELECTRIC CORPORATION - OCEANIC DIVISION
BOX 1488
ANNAPOLIS, MARYLAND 21404

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1974 - PRESENT

PROJECTS:

TREND AMBIENT SURFACE WATER QUALITY MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

WATER QUALITY MONITORING HAS BEEN DONE THROUGHOUT THE CHESAPEAKE BAY AND ITS TRIBUTARIES SINCE 1974 TO ESTABLISH TRENDS. SAMPLES ARE COLLECTED MONTHLY AND ANALYZED FOR APPROXIMATELY 20 WATER QUALITY PARAMETERS. THERE ARE 150 STATIONS WITH 16 OF THEM RUNNING LONGITUDINALLY UP THE CENTER OF THE BAY. PRINTOUTS OF THE DATA ARE AVAILABLE IN ANNUAL TREND DATA REPORTS FROM 1975 THROUGH THE PRESENT. A SUMMARY REPORT FOR DATA FROM 1966-1974 IS AVAILABLE. ALSO AVAILABLE IS A PRINTOUT SUMMARIZING THE MASTER SAMPLING STATIONS AND WATER QUALITY DATA INVENTORY. THE DATA FROM 1966-1974 WAS NOT COLLECTED OR ANALYZED ON A REGULAR BASIS FOR THE 20 PARAMETERS. LITTLE DATA EXISTS ON HEAVY METALS, PESTICIDES AND OIL AND GREASE. IT IS POSSIBLE THAT THESE PARAMETERS MAY BE MEASURED ON AN ANNUAL BASIS IN THE FUTURE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-269-3677
MARYLAND WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1974 - 1976

PROJECTS:
REGIONAL DISTRIBUTION OF Zn, Cu, Cd and Hg IN SHELLFISH IN NORTH CHESAPEAKE

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
THIS PAPER WAS DEVELOPED FROM 130 ANALYSES ON OYSTERS AND 41 ANALYSES ON CLAMS THAT WERE COLLECTED FROM THE UPPER CHESAPEAKE BAY DURING 1975 AND 1976. THE SAMPLES WERE ANALYZED FOR ZINC, COPPER, CADMIUM AND MERCURY. THEY WERE COLLECTED DURING THE HARVESTING SEASON BY THE MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
GEORGE HELZ   301-454-3872
UNIVERSITY OF MARYLAND
DEPARTMENT OF CHEMISTRY
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: FEBRUARY 1974

PROJECTS:
DISTRIBUTION OF METALS IN ELIZABETH RIVER SEDIMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, ELIZABETH RIVER

ABSTRACT:
THIS STUDY PROVIDES BASELINE DATA OF CONDITIONS RELATING TO METALS CONTAMINATION OF ELIZABETH RIVER SEDIMENTS. SAMPLES WERE COLLECTED AT 96 STATIONS AND ANALYZED FOR Cd, Cu, Cr, Hg, Pb, Zn, Al, AND Fe USING ATOMIC ABSORPTION SPECTROPHOTOMETRY. SEWAGE TREATMENT PLANT LOCATIONS, INDUSTRIAL DISCHARGES AND TABLES CONCERNING TOXICITY OF METALS TO MARINE LIFE ARE INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MD 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1974

PROJECTS:
LITTLE CREEK BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, LITTLE CREEK

ABSTRACT:
TWENTY SEDIMENT SAMPLES TAKEN BY ENVIROPLAN WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR NUTRIENTS, OILS, AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1975

PROJECTS:
HEAVY METAL ANALYSES OF OYSTERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
BEGINNING IN SEPTEMBER 1975, 5 OYSTER SAMPLES (CRASSOSTREA VIRGINICA) FROM 3 LOCATIONS AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT WERE COLLECTED QUARTERLY. THEY WERE ANALYZED FOR ZINC, MANGANESE, IRON, CHROMIUM, COPPER AND NICKEL BY ATOMIC ABSORPTION SPECTROPHOTOMETRY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
RANDY ROIG   301-269-2261
MARYLAND DEPARTMENT OF NATURAL RESOURCES
POWER PLAN SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: SPRING 1975

PROJECTS:
WHITE PERCH PROJECT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER

ABSTRACT:
THIS STUDY EXAMINES THE DRASTIC POPULATION REDUCTION OF WHITE PERCH IN THE JAMES RIVER DURING THE SPRING OF 1975. ABOUT 30-40 SAMPLES WERE TAKEN FROM 4 STATIONS AND ANALYZED FOR HEAVY METALS BUT THE STUDY WAS TERMINATED WHEN THE POPULATION RETURNED TO NORMAL. NO REPORT WAS WRITTEN.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
211 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MARCH 1975

PROJECTS:
SEDIMENT-METAL ELUTRIATES ANALYSIS, "TRANSCO" SITE, ELIZABETH RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, ELIZABETH RIVER

ABSTRACT:
TWENTY-FOUR STATIONS WERE SAMPLED AS PART OF A STUDY BY NUS CORPORATION TO DETERMINE THE ENVIRONMENTAL IMPACT OF DREDGING OPERATIONS FOR THE "TRANSCO" SITE IN THE ELIZABETH RIVER. SEDIMENT AND ELUTRIATE SAMPLES WERE ANALYZED FOR WATER QUALITY AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MAY 1975

PROJECTS:
LYNNHAVEN BAY BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, LYNNHAVEN BAY

ABSTRACT:
SIX SEDIMENT SAMPLES TAKEN BY ENVIROPLAN WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR SOLIDS, COD, AND HEAVY METALS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1973.

DATA COLLECTED: JUNE 1975

PROJECTS:

INVESTIGATION OF HEAVY METAL CONCENTRATIONS OF SEDIMENT AND BIOTA IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC GENERATING STATION

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MORGANTOWN

ABSTRACT:

MEASUREMENTS OF COPPER, NICKEL AND ZINC IN SEDIMENTS WERE TAKEN OVER A LARGE AREA IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC GENERATING STATION. LEVELS OF THESE METALS IN THE BODY TISSUE OF TWO BIVALVES, RANGIA CUNEATA AND MACOMA BALTHICA, WERE MEASURED. APPROXIMATELY 42 STATIONS WERE SAMPLED ONCE IN JUNE 1975.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

RANDY ROIG 301-269-2261
MARYLAND DEPT. OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1975 TO SEPTEMBER 1975

PROJECTS:
LOWER CHESAPEAKE BAY BOTTOM SEDIMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES AND BACK RIVERS, SKIFFE'S AND DEEP CREEKS

ABSTRACT:
NINETEEN SEDIMENT SAMPLES, SEVEN ELUTRIATE SAMPLES AND SIX WATER COLUMN SAMPLES TAKEN BY THE ARMY CORPS OF ENGINEERS WERE ANALYZED FOR HEAVY METALS UNDER FOUR SEPARATE CONTRACTS BY VIRGINIA INSTITUTE OF MARINE SCIENCE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1975 TO OCTOBER 1975

PROJECTS:
BIOLOGICAL AND CHEMICAL STUDIES OF DREDGED CANALS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, BACK RIVER, TOPPING CREEK.

ABSTRACT:
THIS STUDY CONCERNING A DEVELOPMENT OF INLAND HOUSING DEVELOPMENT CANALS AT THE MOUTH OF TOPPING CREEK WAS SUBMITTED TO THE ARMY CORPS OF ENGINEERS. EIGHT STATIONS WERE SAMPLED ONCE IN JULY AND ONCE IN OCTOBER. PARAMETERS MEASURED INCLUDED GRAIN SIZE, WATER QUALITY, HEAVY METALS AND OILS. IN ADDITION, BENTHIC BIOTA POPULATIONS WERE STUDIED EXTENSIVELY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1975 TO SEPTEMBER 1975

PROJECTS:
THE FATE OF PETROLEUM HYDROCARBONS FROM AN EXPERIMENTAL OIL SPILL IN A SEMINATURAL ESTUARINE ENVIRONMENT.

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, YORK RIVER, CHEATHAM ANNEX, PENNIMAN SPIT.

ABSTRACT:
TWO LARGE PENS (576 m^2 EACH) WERE BUILT OUT FROM THE SHORE TO CONTAIN THE FRESH #2 FUEL OIL (85 1 SPILLED IN ONE, 28 1 IN THE OTHER). A CONTROL AREA WAS ESTABLISHED 50 m AWAY FROM THE PENS. SAMPLES OF OYSTERS, CLAMS, SEDIMENT AND WATER WERE TAKEN FROM EACH OF THE THREE AREAS BEFORE THE SPILL AND IMMEDIATELY (6 HRS.) AFTERWARDS FOR ABOUT A MONTH. LEVELS OF PETROLEUM HYDROCARBONS WERE ANALYZED USING GAS CHROMATOGRAPHY AND A COMPUTERIZED GC-MS SYSTEM.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. RUDOLF H. BIERI 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: SEPTEMBER 1975 TO PRESENT

PROJECTS:
EXPERIMENTAL OIL SPILL IN CUB CREEK, VIRGINIA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, YORK RIVER, CHEATHAM ANNEX, QUEEN'S CREEK, CUB CREEK

ABSTRACT:
FIVE LARGE PENS (810 m^2 EACH) WERE BUILT TO ENCLOSE SOME OF THE CREEK ITSELF AND A LARGE AREA OF INTERTIDAL MARSH. FRESH OIL (570 1 EACH) WAS SPILLED INTO 2 PENS, WEATHERED OIL (760 1 EACH) INTO 2 OTHER PENS AND 1 PEN SERVED AS A CONTROL. ANOTHER CONTROL WAS ESTABLISHED OUTSIDE THE PENS. MEASUREMENTS WERE MADE TO DETERMINE THE EFFECTS OF THE OIL SPILL ON WATER QUALITY, MARSH GRASS, BENTHIC BIOTA, FISH, PLANKTON, FUNGI AND BACTERIA. PETROLEUM HYDROCARBON LEVELS WERE MEASURED IN SEDIMENT, WATER, FISH, CLAMS, OYSTERS AND ORGANIC DETRITUS. SAMPLING CONTINUES FOR MOST PARAMETERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

PROJECTS:
KEPONE MONITORING STUDY IN VIRGINIA WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:
THE VIRGINIA STATE WATER CONTROL BOARD IS MONITORING KEPONE LEVELS IN SEDIMENT, WATER AND FISH. WATER AND SEDIMENT SAMPLES ARE TAKEN FROM 55-60 STATIONS IN THE JAMES RIVER AND ITS TRIBUTARIES WHILE THE FISH ARE SAMPLED FROM 15 ZONES IN THE JAMES AND LOWER CHESAPEAKE BAY - ALL WITH VARYING FREQUENCY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VIRGINIA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

PROJECTS:

KEPONE MONITORING

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER, LOWER CHESAPEAKE BAY

ABSTRACT:

THIS PROGRAM MONITORS KEPONE LEVELS IN SHELLFISH AND CRABS IN THE JAMES RIVER AND LOWER CHESAPEAKE BAY ON A MONTHLY BASIS. SAMPLING OF SHELLFISH AT 10 STATIONS BEGAN IN DECEMBER 1975. SAMPLING OF CRABS AT 15-20 STATIONS AND 15 CRAB PLANTS BEGAN IN SPRING 1976.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVENOR STREET
RICHMOND, VIRGINIA 23219

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1976 - PRESENT

PROJECTS:
HERBICIDES AND SUBMERGED PLANTS IN CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, POPLAR ISLANDS

ABSTRACT:
THIS PAPER IS PART OF AN ONGOING STUDY IN THE UPPER CHESAPEAKE BAY, MARYLAND INITIATED IN THE SPRING OF 1976. ITS PURPOSE IS TO STUDY THE EFFECTS THAT 6 HERBICIDES, SEDIMENTS AND NUTRIENTS HAVE ON ROOTED AQUATIC PLANTS. DOSE RESPONSE BIOASSAYS OF ATRAZINE TOXICITY WERE CARRIED OUT IN THE LABORATORY ON <u>ZANICHELLIA PALUSTRIS</u>, HORNED PONDWEED.

FOUR WATERSHEDS WERE MONITORED ALONG THE RHODE RIVER FOR RUNOFF. TWO OF THE ESTUARINE STATIONS WERE LOCATED ON THE RHODE RIVER AND ONE WAS LOCATED IN A TIDAL MUD FLAT NEAR THE POPLAR ISLANDS ON THE EASTERN SHORE OF MARYLAND. NO AGRICULTURE IS PRACTICED ON THE ISLANDS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1976

PROJECTS:
INPUT OF TRACE METALS TO MID-CHESAPEAKE BAY FROM SHORE EROSION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
THE PURPOSE OF THE STUDY WAS TO ASSESS THE TRACE METAL FLUX FROM SHORE EROSION TO THE BAY. SEDIMENT SAMPLES (48) WERE TAKEN FROM MID-BAY AND THE NORTHERN BAY AND ANALYZED FOR CONCENTRATIONS OF Si, Al, Fe, Ca, K, Ti, Cr, Mn, Co, Ni, Cu, Zn, Cd AND Pb. A MODEL IS PROPOSED THAT TRACES METAL INPUT INTO THE BAY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN, MARYLAND ROOM 301-454-3035
McKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1976

PROJECTS:

KEPONE: CHRONIC EFFECTS ON EMBRYO, FRY, JUVENILE, AND ADULT SHEEPSHEAD MINNOWS (CRYRINODON VARIEGATUS)

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:

THE TOXICITY OF KEPONE TO THE EMBRYO, FRY, JUVENILE, AND ADULT SHEEPSHEAD MINNOW (CYPRINODON VARIEGATUS) WAS INVESTIGATED. FISH WERE EXPOSED IN 28-DAY AND 36-DAY TIME SPANS AND ANALYZED FOR KEPONE CONCENTRATIONS AND ABNORMALITIES.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 301-326-4281
CHESAPEAKE BIOLOGICAL LABORATORY
P.O. BOX 38
SOLOMONS, MD 20688

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1976 - PRESENT

PROJECTS:
RURAL NON-POINT POLLUTION STUDIES IN MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SEVERN RIVER, CHOPTANK RIVER, POPLAR ISLANDS.

ABSTRACT:
ACTIVITIES BEGAN IN 1976. DATA ON HERBICIDE AND FERTILIZER APPLICATION, SOIL CHEMISTRY, VOLUME AND COMPOSITION OF RUNOFF WATERS, RAINFALL, SOIL MOISTURE AND TEMPERATURE, PLANT GROWTH, NUTRIENT REMOVAL, SOIL COVERAGE BY PLANTS, SOIL EROSION RATES, SOIL MINERALOGY AND PARTICLE SIZE DISTRIBUTION WAS OBTAINED. RUNOFF SAMPLES FROM 8 BASIN-SIZED WATERSHEDS WERE ANALYZED FOR CATION AND HERBICIDE CONCENTRATIONS. HERBICIDE CONCENTRATIONS IN WATER, SUSPENDED SEDIMENTS AND BOTTOM SEDIMENTS WERE MEASURED AS WELL AS TURBIDITY, SALINITY, PHYTOPLANKTON CHLOROPHYLL CONCENTRATIONS AND BOTTOM SEDIMENT CHARACTERISTICS. SUBMERGED VEGETATION POPULATION STUDIES WERE DONE IN THE FIELD. LAB ASSAYS WERE PERFORMED ON LINURON AND ATRAZINE TOXICITY EFFECTS ON SUBMERGED VEGETATION. FIVE FIELD STATIONS WERE SAMPLED MONTHLY ON THE RHODE RIVER, 8 STATIONS ON THE CHOPTANK RIVER AND 4 STATIONS AROUND THE POPLAR ISLANDS WERE SAMPLED FOUR TIMES A YEAR.

DATA AVAILABILITY: SIX STATIONS ON THE SEVERN RIVER WERE SAMPLED ONCE.

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, P.O. BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1976 - JULY 1976

PROJECTS:
THE DETERMINATION OF TRACE AMOUNTS OF CADMIUM IN OYSTERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, JAMES RIVER, GREAT WICOMICO RIVER

ABSTRACT:
OYSTER SAMPLES WERE TAKEN IN JUNE AND JULY 1976 FROM TWO LOCATIONS IN THE CHESAPEAKE BAY--FROM THE MOUTH OF THE GREAT WICOMICO RIVER AND FROM THE TIP OF MULBERRY ISLAND IN THE JAMES RIVER. THE SAMPLES WERE ANALYZED FOR CADMIUM CONCENTRATIONS BY ATOMIC ABSORPTION SPECTROMETRY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN, McKELDIN LIBRARY 301-454-3035
MARYLAND ROOM
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND 20742

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1976

PROJECTS:
HERBICIDE ANALYSIS OF CHESAPEAKE BAY WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
ELEVEN STATIONS ALONG A LONGITUDINAL AXIS OF THE CHESAPEAKE BAY WERE SAMPLED DURING THE FIRST WEEK OF JUNE 1976. THE WATER SAMPLES WERE TESTED FOR THE HERBICIDES ALOCHLOR, ATRAZINE, AND SIMAZONE BY GAS CHROMATOGRAPY.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN AUSTIN 301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III, U.S. EPA
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1976 - PRESENT

PROJECTS:
BIOGEOCHEMISTRY OF TRACE METALS IN CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:
THIS ONGOING PROJECT CONCERNS BIOGEOCHEMICAL CYCLING OF TRACE ELEMENTS IN THE CHESAPEAKE BAY. IT ATTEMPTS TO QUANTIFY THE INPUTS OF METALS SUCH AS IRON, MANGANESE, ZINC AND COPPER INTO THE BAY AND STUDY THEIR DISTRIBUTION AND BEHAVIOR. THERE ARE FOUR SECTIONS TO THE PROGRESS REPORT. THEY ARE THE FATE OF PARTICLE - ASSOCIATED METALS IN THE CHESAPEAKE BAY, THE BEHAVIOR OF IRON IN THE POTOMAC RIVER ESTUARY, INVESTIGATIONS OF BOTTOM SEDIMENT COMPOSITION IN THE CHESAPEAKE BAY, AND INTERSTITIAL WATER INVESTIGATIONS. THE REPORT SUMMARIZES PAST RESEARCH IN THE FIELD AS WELL AS PRESENTS NEW DATA GENERATED FROM THE STUDY. SAMPLES ARE TAKEN FROM THE SUSQUEHANNA FLATS DOWN THE VERTICAL AXIS OF THE CHESAPEAKE BAY TO THE YORK RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ANDREW EATON 301-338-8255
THE JOHNS HOPKINS UNIVERSITY, CHESAPEAKE BAY INSTITUTE
34TH AND CHARLES ST.
BALTIMORE, MD 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1976 TO SEPTEMBER 1976

PROJECTS:

EFFECTS OF CHANNEL MAINTENANCE DREDGING OF CONTAMINATED SEDIMENTS ON ACCUMULATION OF THE PESTICIDE KEPONE BY BLUEGILL SUNFISH, CHANNEL CATFISH, AND A MACTRID CLAM.

GENERAL GEOGRAPHIC AREA:

NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER

ABSTRACT:

THE STUDY WAS CONDUCTED IN THE JAMES RIVER NEAR THE BAY. TWO CONSECUTIVE 28-DAY LIVE-BOX STUDIES WERE CONDUCTED AT 5 STATIONS: ONE UPSTREAM FROM THE DREDGING, TWO NEAR THE DREDGING, AND TWO DOWNSTREAM FROM THE DREDGING. SAMPLES OF SEDIMENT, WATER AND THE BIOTA WERE TAKEN AT FOUR DAY INTERVALS. REPORT INCLUDES SEDIMENT AND WATER DATA FROM VIRGINIA STATE WATER CONTROL BOARD AND ARMY CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

LIBRARIAN 804-786-0000
VIRGINIA COMMONWEALTH UNIVERSITY
910 WEST FRANKLIN STREET
RICHMOND, VA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: NOVEMBER 1976 TO DECEMBER 1976

PROJECTS:
KEPONE IN SOME DEEP CREEK SEDIMENT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, LOWER CHESAPEAKE BAY, DEEP CREEK

ABSTRACT:
EIGHT SEDIMENT SAMPLES TAKEN BY THE ARMY CORPS OF ENGINEERS WERE ANALYZED BY VIRGINIA INSTITUTE OF MARINE SCIENCE FOR KEPONE LEVELS.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DR. MICHAEL E. BENDER 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER PT., VA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JUNE 1977 - JUNE 1978

PROJECTS:
MONITORING OF THE UPPER CHESAPEAKE BAY FOR THE SYMETRICAL TRAZINE HERBICIDES ATRAZINE AND SIMAZINE

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, SUSQUEHANNA RIVER, POTOMAC RIVER

ABSTRACT:
THIS PROGRAM COLLECTED AND ANALYZED SURFACE WATER SAMPLES FROM THE UPPER CHESAPEAKE BAY AND THE POTOMAC RIVER ESTUARY FOR ATRAZINE AND SIMAZINE HERBICIDES. SAMPLES WERE COLLECTED MONTHLY DURING THE 1977 SEASON TO MEASURE SEASONAL VARIATIONS OF HERBICIDE CONCENTRATIONS IN SURFACE RUNOFF. SAMPLING WILL CONTINUE THROUGH THE 1978 APPLICATION SEASON. SAMPLES WERE COLLECTED ALONG THE LONGITUDINAL AXIS OF THE CHESAPEAKE BAY AT STATIONS ALONG THE EPA ANNAPOLIS FIELD OFFICE WATER QUALITY MONITORING NETWORK. USING THE MEAN DAILY FLOWS, DAILY LOADINGS WERE COMPUTED.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN AUSTIN, JR.   301-224-2740
ANNAPOLIS FIELD OFFICE, REGION III
ENVIRONMENTAL PROTECTION AGENCY
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS, MARYLAND 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1978 - DECEMBER 1978

PROJECTS:
PATUXENT RIVER PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
THIS PROGRAM CONTAINS 21 TASKS AND WILL INCLUDE SUCH AREAS AS FISH DISTRIBUTION, BENTHIC MACROINVERTEBRATE DISTRIBUTION, SEDIMENT ANALYSES, WATER QUALITY, NON-POINT SOURCE ASSESSMENT OF POLLUTANT LOADINGS, BIOACCUMULATION OF TOXIC ORGANIC COMPOUNDS AND HEAVY METALS IN ESTUARINE ORGAINISMS, AND FECAL COLIFORM DISTRIBUTIONS. DATA COLLECTED WILL BE DURING 1978. THE PROGRAM WILL GENERATE A SET OF DATA THAT REPRESENTS SEASONAL AND SPATIAL CHANGES IN THE PATUXENT RIVER SYSTEM. A LITERATURE AND DATA BASE SURVEY WILL BE CONDUCTED FOR THE PATUXENT RIVER.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PETER G. ROBERTSON 301-269-3677
MARYLAND DEPARTMENT OF NATURAL RESOURCES
WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MARYLAND 21403

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

ANNEX IV

Monitoring Programs

Toxics in the Chesapeake Bay

The 22 monitoring programs identified for toxics in the Chesapeake Bay form two categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 21 files.

Continuous monitoring programs initiated after January 1967 that have operated five (5) years or longer, but are presently not operational - 0 files.

Continuous monitoring programs initiated prior to January 1967 that have operated ten (10) years or longer and are presently not operational - 1 file.

The programs are arranged by date of initiation, earliest first.

DATA COLLECTED: 1946 TO PRESENT

MONITORING PROJECTS:
NPDES PERMIT COMPLIANCE MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:
THIS FILE CONTAINS POINT DISCHARGE TESTING DATA FROM AS EARLY AS 1946. BY THE MID-1960's THE STATE WATER CONTROL BOARD HAD DEVELOPED A REGULAR MONITORING PROGRAM. IN 1972 NPDES UNDER PL 92-500 REPLACED THIS PROGRAM. EACH MAJOR DISCHARGER IS TESTED BY VSWCB AT LEAST ANNUALLY TO VERIFY THE DATA FROM THE DISCHARGER MONITORING REPORTS. MINOR DISCHARGERS SHOULD BE TESTED ANNUALLY. SOME PARAMETERS TESTED INCLUDE NUTRIENTS, HEAVY METALS, KEPONE AND OILS. THESE REPORT ARE ON FILE WITH EACH OF THE RESPECTIVE DMR'S WHICH TOTAL APPROXIMATELY 4000 FILES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JULY 1962 TO PRESENT

MONITORING PROJECTS:
DELAWARE ESTUARY WATER QUALITY SURVEILLANCE PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA. TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTH- AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM. (DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
RESEARCH AND DEVELOPMENT DIVISION
1270 MSB 15TH AND JFK BLVD.
PHILADELPHIA, PENNSYLVANIA USA 19107

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 147.

DATA COLLECTED: 1964 TO PRESENT

MONITORING PROJECTS:
WATER RESOURCES DATA FOR PENNSYLVANIA, WATER QUALITY RECORDS

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBONDIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
P. DEMARTE 717-782-4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG PENNSYLVANIA USA 17108

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 140.

DATA COLLECTED: JANUARY 1965 TO PRESENT

MONITORING PROJECTS:
FISH KILL INVESTIGATIONS IN MARYLAND WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS ARE INVESTIGATED. WATER ANALYSES AND ANALYSES OF FISH FOR CAUSE OF DEATH ARE CONDUCTED. COUNTS, SIZES, SPECIES LISTS AND VALUES FOR FISHES INVOLVED ARE RECORDED. (SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-269-3783
MARYLAND DEPARTMENT OF NATURAL RESOURCES
FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 35.

DATA COLLECTED: 1966 - 1976

MONITORING PROJECTS:
MORGANTOWN STEAM ELECTRIC STATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:
THIS REPORT (VOLUMES I AND II) SUMMARIZES THE RESULTS OF A 10-YEAR PERIOD (1966-1976) OF STUDIES. THEY WERE DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA ON THE AQUATIC ECOSYSTEM OF THE POTOMAC RIVER IN THE VICINITY OF THE MORGANTOWN STEAM ELECTRIC STATION. THE REPORT INCLUDES HYDROTHERMAL DATA, CHEMICAL AND PHYSICAL DATA (SALINITY, TEMPERATURE, NUTRIENTS, DISSOLVED OXYGEN, pH, FREE DISSOLVED CARBON DIOXIDE, HEAVY METALS), PHYTOPLANKTON AND BACTERIOLOGICAL DATA, MACROINVERTEBRATE SURVEYS AND FISH SURVEYS. THE APPENDICES INCLUDE TWO STUDIES (1971 AND 1976) ON METALS IN OYSTERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 215-567-3700
THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
DIVISION OF LIMNOLOGY AND ECOLOGY
19TH AND THE PARKWAY
PHILADELPHIA, PA 19103

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1967 - PRESENT

MONITORING PROJECTS:
ENVIRONMENTAL CONTAMINANT MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, JAMES RIVER, POTOMAC RIVER, SUSQUEHANNA RIVER

ABSTRACT:
THIS ONGOING MONITORING PROGRAM IS A SUBPROGRAM OF THE NATIONAL PESTICIDE MONITORING PROGRAM AND HAS BEEN IN EXISTENCE SINCE 1967. THERE ARE THREE STATIONS ON TRIBUTARIES OF THE CHESAPEAKE BAY. THEY ARE ON THE POTOMAC RIVER, THE SUSQUEHANNA RIVER AND THE JAMES RIVER. PRIMARILY, FRESHWATER FISH ARE COLLECTED. THIS IS DONE ONCE A YEAR. SPECIES ARE ANALYZED FOR RESIDUES OF DDT, DDE, DDD, ENDRIN, DIELDRIN, ALDRIN, CHLORDANE, LINDANE, HEPTACHLOR, HEPTACHLOR EPOXIDE, AND TOTAL PCBS. FIVE METALS INCLUDING SELENIUM, ARSENIC, LEAD, CADMIUM AND MERCURY ARE ALSO ANALYZED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LARRY LUDKE 314-442-3101
COLUMBIA NATIONAL FISHERIES RESEARCH LABORATORY
U.S. FISH AND WILDLIFE SERVICE
ROUTE 1
COLUMBIA, MISSOURI 65201

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1969 TO PRESENT

MONITORING PROJECTS:
CHEMICAL, BACTERIOLOGICAL AND PHYSICAL STUDY ON THE CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS, MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION, MARYLAND ARE ANALYZED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) IN THE FORM OF YEARLY CONTRACT REPORTS BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

N. G. LASSAHN 301-234-6188
BALTIMORE GAS AND ELECTRIC COMPANY
1020 GAS AND ELECTRIC BUILDING
LEXINGTON AND LIBERTY STREETS
BALTIMORE MARYLAND USA 21203

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III PAGE 103.

DATA COLLECTED: OCTOBER 1969 TO PRESENT

MONITORING PROJECTS:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEY

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

ABSTRACT:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEYS ARE CONDUCTED BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY IN THE VICINITY OF THREE POWER GENERATING STATIONS IN MARYLAND. THEY ARE THE CHALK POINT STATION ON THE PATUXENT RIVER, THE MORGANTOWN GENERATING STATION ON THE POTOMAC RIVER AND THE CALVERT CLIFFS NUCLEAR GENERATING STATION ON THE CHESAPEAKE BAY. THE CONTRACT AGENCIES ARE THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) FOR THE CALVERT CLIFFS STATION AND THE POTOMAC ELECTRIC POWER COMPANY (PEPCO) FOR BOTH THE CHALK POINT AND THE MORGANTOWN STATIONS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 62.

DATA COLLECTED: OCTOBER 1969 TO PRESENT

MONITORING PROJECTS:
SEDIMENT ANALYSES FOR HEAVY METALS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER, MORGANTOWN

ABSTRACT:
THIS ONGOING PROGRAM MONITORS HEAVY METALS IN POTOMAC RIVER SEDIMENTS NEAR THE MORGANTOWN STEAM ELECTRIC GENERATING STATION. WORK IS DONE BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY FOR THE POTOMAC ELECTRIC POWER COMPANY (PEPCO).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT ESTUARINE RESEARCH LABORATORY
BENEDICT MARYLAND USA 20612

STEVEN GUILAND 202-872-2543
POTOMAC ELECTRIC POWER COMPANY
1900 PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C. USA 20006

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 60.

DATA COLLECTED: 1970 - PRESENT

MONITORING PROJECTS:
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM BEGAN IN 1970 TO MONITOR THE AREA AROUND THE CALVERT CLIFFS NUCLEAR POWER PLANT ON THE CHESAPEAKE BAY. EACH YEAR APPROXIMATELY 1500 ANALYSES ARE PERFORMED ON 800 ENVIRONMENTAL SAMPLES FROM THE AQUATIC, ATMOSPHERIC AND TERRESTRIAL ENVIRONMENTS. SOME OF THE PARAMETERS MEASURED INCLUDE TRITIUM, STRONTIUM-89, STRONTIUM-90 AND GROSS ALPHA, BETA AND GAMMA EMITTING NUCLIDES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

STEVEN LONG 301-269-2261
MARYLAND DEPARTMENT OF NATURAL RESOURCES
POWER PLANT SITING PROGRAM
TAWES BUILDING, 580 TAYLOR AVENUE
ANNAPOLIS, MD 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1971 - PRESENT

MONITORING PROJECTS:
SHELLFISH SANITATION PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:

THIS ONGOING SHELLFISH MONITORING PROGRAM BEGAN IN 1971. SAMPLING IS DONE AT 1500 STATIONS AROUND THE CHESAPEAKE BAY AND ITS TRIBUTARIES AT LEAST ONCE A MONTH. SAMPLES ARE ANALYZED FOR TEMPERATURE, SALINITY, DISSOLVED OXYGEN, FECAL COLIFORM AND TOTAL COLIFORM. SHELLSTOCK AND FINFISH ARE COLLECTED ROUTINELY AND ANALYZED FOR HEAVY METAL, PESTICIDE, CHLORINATED HYDROCARBON, BACTERIAL AND ORGANIC CHEMICAL CONCENTRATIONS. BOATS ARE COLLECTING SAMPLES FOUR DAYS A WEEK, 50 WEEKS A YEAR.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

MAX EISENBERG 301-383-2365
MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE
201 W. PRESTON STREET, P.O. BOX 13387
BALTIMORE, MD 21201

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1972 TO PRESENT

MONITORING PROJECTS:
DISCHARGER MONITORING REPORTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA

ABSTRACT:
THESE REPORTS ARE REQUIRED AS PART OF THE NPDES PROGRAM UNDER PL 92-500 INITIATED IN 1972. MUNICIPAL AND INDUSTRIAL DISCHARGERS SELF-TEST THEIR OWN EFFLUENT TO MONITOR SUCH PARAMETERS AS NUTRIENTS, HEAVY METALS, KEPONE AND OILS WITH VARYING FREQUENCIES ASSIGNED EACH PARAMETER. APPROXIMATELY 4000 FILES ARE NOW ACTIVE AND ARE ADMINISTERED BY THE STATE FOR EPA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF APPLIED TECHNOLOGY
VIRGINIA STATE WATER CONTROL BAORD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: JANUARY 1972 TO PRESENT

MONITORING PROJECTS:
HEAVY METALS IN COASTAL FISHES OF NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL,U.S., NORTH CAROLINA

ABSTRACT:
HEAVY METAL SURVEY OF NORTH CAROLINA COASTAL FISHES.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
RICHARD BARBER 919-728-2111
DUKE UNIVERSITY MARINE LABORATORY
BEAUFORT, NORTH CAROLINA 28516

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 119.

DATA COLLECTED: APRIL 1972 TO PRESENT

MONITORING PROJECTS:
PCB'S AND PESTICIDES IN STRIPED BASS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND, NANTICOKE AND CHOPTANK RIVERS

ABSTRACT:
PESTICIDES AND PCB'S IN STRIPED BASS EGGS WERE ANALYZED. 24 FISH WERE ALSO COLLECTED FROM THE NANTICOKE AND CHOPTANK RIVERS, MARYLAND DURING SPAWNING SEASON IN 1972 AND 1973. BACKGOUND LEVELS WERE SOUGHT AND POSSIBLE EFFECTS ON SUCCESS OF SPAWNING WERE EVALUATED. SPORADIC SAMPLING HAS BEEN DONE SINCE. (ANALYSES PERFORMED BY EPA GULF BREEZE LAB, USFW SERVICE LAB IN COLUMBIA MISSOURI, AND WESTINGHOUSE OCEAN ENGINEERING CENTER)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH BOONE 301-269-3785
MARYLAND DEPARTMENT OF NATURAL RESOURCES
FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 39.

DATA COLLECTED: JULY 1972 - 1976, 1978 TO PRESENT

MONITORING PROJECTS:
NATIONAL ESTUARINE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY

ABSTRACT:
THIS PROGRAM MONITORS TRENDS OF HEAVY METALS AND PESTICIDE CONTAMINATION IN JUVENILE FISH. TRAWLS ARE LOCATED AT THE MOUTHS OF MAJOR TRIBUTARIES TO THE BAY INCLUDING THE FOLLOWING RIVERS: SUSQUEHANNA, PATUXENT, PATAPSCO, CHOPTANK, POTOMAC, RAPPAHANNOCK, YORK, JAMES, SOUTH, MAGOTHY AND ELK. SAMPLES ARE TAKEN AT 6 MONTH INTERVALS AND AT LEAST 2 SPECIES OF FISH ARE COLLECTED. SAMPLES ARE ANALYZED FOR CHLCRINATED PESTICIDES, ORGANO-PHOSPHATE PESTICIDES, PCB'S, PHENOXYHERBICIDES, LEAD, CADMIUM AND MERCURY. THE PROGRAM WILL RESUME IN FY 1978.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PHILIP BUTLER 904-932-5311
EPA ENVIRONMENTAL RESEARCH LABORATORY
SABINE ISLAND
GULF BREEZE, FLORIDA 32561

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: 1974 - PRESENT

MONITORING PROJECTS:
TREND AMBIENT SURFACE WATER QUALITY MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND

ABSTRACT:
WATER QUALITY MONITORING HAS BEEN DONE THROUGHOUT THE CHESAPEAKE BAY AND ITS TRIBUTARIES SINCE 1974 TO ESTABLISH TRENDS. SAMPLES ARE COLLECTED MONTHLY AND ANALYZED FOR APPROXIMATELY 20 WATER QUALITY PARAMETERS. THERE ARE 150 STATIONS WITH 16 OF THEM RUNNING LONGITUDINALLY UP THE CENTER OF THE BAY. PRINTOUTS OF THE DATA ARE AVAILABLE IN ANNUAL TREND DATA REPORTS FROM 1975 THROUGH THE PRESENT. A SUMMARY REPORT FOR DATA FROM 1966-1974 IS AVAILABLE. ALSO AVAILABLE IS A PRINTOUT SUMMARIZING THE MASTER SAMPLING STATIONS AND WATER QUALITY DATA INVENTORY. THE DATA FROM 1966-1974 WAS NOT COLLECTED OR ANALYZED ON A REGULAR BASIS FOR THE 20 PARAMETERS. LITTLE DATA EXISTS ON HEAVY METALS, PESTICIDES AND OIL AND GREASE. IT IS POSSIBLE THAT THESE PARAMETERS MAY BE MEASURED ON AN ANNUAL BASIS IN THE FUTURE.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-269-3677
MARYLAND WATER RESOURCES ADMINISTRATION, WATER QUALITY SERVICES
416 CHINQUAPIN ROUND ROAD
ANNAPOLIS, MD 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: MARCH 1974 TO PRESENT

MONITORING PROJECTS:
OCEAN DISPOSAL SITE OFF THE COAST OF MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN

ABSTRACT:
THE ENVIRONMENTAL PROTECTION AGENCY HAS BEEN COLLECTING DATA SINCE MARCH 1974 FROM TWO OCEAN DISPOSAL SITES APPROXIMATELY 60 MILES OFF THE COAST OF MARYLAND. THE PARAMETERS INCLUDED IN THIS STUDY ARE: ALUMINUM, CADMIUM, CHROMIUM, COBALT, COPPER, IRON, LEAD, MANGANESE, NICKEL, SILVER, TITANIUM, VANADIUM AND ZINC IN BOTH THE SEDIMENT AND ORGANISMS. MEASUREMENTS OF METALS IN CLAMS AND SCALLOPS ARE SEPARATED BY MUSCLE AND ORGANS. OTHER PARAMETERS INCLUDED ARE: SPECIES DETERMINATION OF BENTHIC ANIMALS, WEIGHT OF BENTHIC ANIMALS AND LENGTH OF BENTHIC ANIMALS. THE PROJECT WAS INITIATED BY DR. D. K. PHELPS OF THE EPA ENVIRONMENTAL RESEARCH LABORATORY IN NARRAGANSETT, RHODE ISLAND BUT WAS TRANSFERRED TO THE EPA ANNAPOLIS FIELD OFFICE IN 1977.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DON LEAR 301-224-2740
ENVIRONMENTAL PROTECTION AGENCY, REGION III
ANNAPOLIS FIELD OFFICE
ANNAPOLIS SCIENCE CENTER
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 162.

DATA COLLECTED: SEPTEMBER 1974 TO PRESENT

MONITORING PROJECTS:
PESTICIDE MONITORING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., CHESAPEAKE BAY, EASTERN SHORE, VA. TIDAL RIVERS AND BAYS

ABSTRACT:
OYSTERS OBTAINED AT SIX MONTH INTERVALS FROM 18 STATIONS LOCATED IN TIDAL TRIBUTARIES AND BAYS OF VIRGINIA ARE ANALYZED FOR DDT, DDE, DDD, DIELDRIN, PCB'S. THE DATA IS USED TO MONITOR SHELLFISH CONTAMINATION BY THE CHEMICALS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVERNOR STREET
RICHMOND, VA 23219

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX III, PAGE 95.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

MONITORING PROJECTS:
KEPONE MONITORING STUDY IN VIRGINIA WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, CHESAPEAKE BAY

ABSTRACT:
THE VIRGINIA STATE WATER CONTROL BOARD IS MONITORING KEPONE LEVELS IN SEDIMENT, WATER AND FISH. WATER AND SEDIMENT SAMPLES ARE TAKEN FROM 55-60 STATIONS IN THE JAMES RIVER AND ITS TRIBUTARIES WHILE THE FISH ARE SAMPLED FROM 15 ZONES IN THE JAMES AND LOWER CHESAPEAKE BAY - ALL WITH VARYING FREQUENCY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 804-257-0056
BUREAU OF SURVEILLANCE AND FIELD STUDIES
VIRGINIA STATE WATER CONTROL BOARD
2111 N. HAMILTON STREET
RICHMOND, VA 23230

GRID LOCATOR:

COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: DECEMBER 1975 TO PRESENT

MONITORING PROJECTS:
KEPONE MONITORING

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., VIRGINIA, JAMES RIVER, LOWER CHESAPEAKE BAY

ABSTRACT:
THIS PROGRAM MONITORS KEPONE LEVELS IN SHELLFISH AND CRABS IN THE JAMES RIVER AND LOWER CHESAPEAKE BAY ON A MONTHLY BASIS. SAMPLING OF SHELLFISH AT 10 STATIONS BEGAN IN DECEMBER 1975. SAMPLING OF CRABS AT 15-20 STATIONS AND 15 CRAB PLANTS BEGAN IN SPRING 1976.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CLOYDE W. WILEY, DIRECTOR 804-786-7937
BUREAU OF SHELLFISH SANITATION
DEPARTMENT OF HEALTH
109 GOVERNOR STREET
RICHMOND, VA 23219

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.

DATA COLLECTED: APRIL 1976 - PRESENT

MONITORING PROJECTS:
RURAL NON-POINT POLLUTION STUDIES IN MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, CHESAPEAKE BAY, MARYLAND, RHODE RIVER, SEVERN RIVER, CHOPTANK RIVER, POPLAR ISLANDS

ABSTRACT:
ACTIVITY BEGAN IN 1976. DATA ON HERBICIDE AND FERTILIZER APPLICATION, SOIL CHEMISTRY, VOLUME AND COMPOSITION OF RUNOFF WATERS, RAINFALL, SOIL MOISTURE AND TEMPERATURE, PLANT GROWTH, NUTRIENT REMOVAL, SOIL COVERAGE BY PLANTS, SOIL EROSION RATES, SOIL MINERALOGY AND PARTICLE SIZE DISTRIBUTION WAS OBTAINED. RUNOFF SAMPLES FROM 8 BASIN-SIZED WATERSHEDS WERE ANALYZED FOR CATION AND HERICIDE CONCENTRATIONS. HERBICIDE CONCENTRATIONS IN WATER, SUSPENDED SEDIMENTS AND BOTTOM SEDIMENTS WERE MEASURED AS WELL AS TURBIDITY, SALINITY, PHYTOPLANKTON CHLORPHYLL CONCENTRATIONS AND BOTTOM SEDIMENT CHARACTERISTICS. SUBMERGED VEGETATION POPULATION STUDIES WERE DONE IN THE FIELD. LAB ASSAYS WERE PERFORMED ON LINURON AND ATRAZINE TOXICITY EFFECTS ON SUBMERGED VEGETATION. FIVE FIELD STATIONS WERE SAMPLED MONTHLY ON THE RHODE RIVER, 8 STATIONS ON THE CHOPTANK RIVER AND 4 STATIONS AROUND THE POPLAR ISLANDS WERE SAMPLED FOUR TIMES A YEAR. SIX STATIONS ON THE SEVERN RIVER WERE SAMPLED ONCE.

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID CORRELL 301-261-4190
SMITHSONIAN INSTITUTION, CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, P.O. BOX 622
EDGEWATER, MD 21037

GRID LOCATOR:
COMPLETE FILE DESCRIPTION SUBMITTED TO EDS IN JUNE 1978.